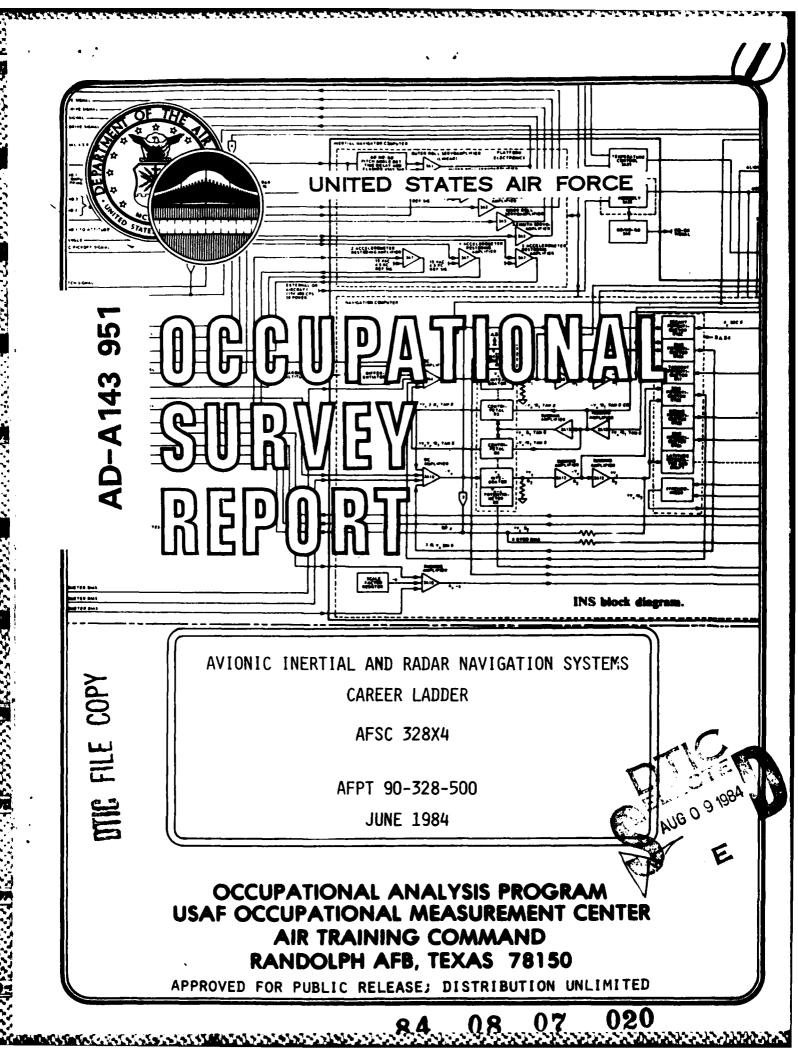


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## DISTRIBUTION FOR AFSC 328X4 OSR AND SUPPORTING DOCUMENTS

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AFHRL/ID	1	1m	1 <b>m</b> /1h
AFLMC/LGM	1		1
AFLMC/XR	1		1
AFMEA/MEMD	1	1h	1
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ARMY OCCUPATIONAL SURVEY BRANCH	1		
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HQ AFSC/MPAT	3		3
HQ ATC/TTQL	2		1
HQ ATC/TTY	2		1
HQ MAC/DPAT	3		3
HQ PACAF/DPAL	1		1
HQ PACAF/DPAT	3		3
HQ SAC/DPAT	3		3
HQ SAC/DPATC (ATCLO)	1		1
HQ TAC/DPAT	3		3
HQ TAC/DPLATC	1		1
HQ USAF/LEYM	1		1
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HQ USAFE/DPATC	1		1
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LMDC/AN	1		
NODAC	1		
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3785 FLDTG/TTFO	2		2

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## TABLE OF CONTENTS

	NUMBER
PREFACE	iii
SUMMARY OF RESULTS	iv
INTRODUCTION	1
History	1
Career Ladder EntryObjective	1 2
SURVEY METHODOLOGY	
	3
Inventory Development	3 3
Task Factor Administration	3
Survey Sample	5
	8
Specialty Structure Overview	8 11
Comparison of Specialty Jobs	24
Summary	25
ANALYSIS OF DAFSC GROUPS	44
Summary	45
COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS	52
ANALYSIS OF EXPERIENCE (TAFMS) GROUPS	53
First-Enlistment Personnel	53
Job Satisfaction	57
ANALYSIS OF TRAINING	59
Task Difficulty	59
Specialty Training Standard	60 6 <b>4</b>
ELECTRONICS PRINICPLES INVENTORY (EPI)	67
ANALYSIS OF MAJOR COMMAND DIFFERENCES	69
MAC	69
TAC	69
AFSC	70 70
PACAF	70
ATC	70 71
Summary	71
ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS	77
COMPARISON TO PREVIOUS SURVEYS	79 '
IMPLICATIONS	82
APPENDIX A - REPRESENTATIVE TAKS FOR CAREER LADDER	
STRUCTURE GROUPS	83

### PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Avionic Inertial and Radar Navigation Systems Career Ladder (AFSCs 32834, 32854, 32874). The project was directed by USAF Program Technical Training, Volume II, Section VIII, dated February 1981. Authority for conducting occupational surveys is contained in AFR 35-2. Computer printouts from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Mr James L. Slovak, Inventory Development Specialist. Dr David E. Williams, Occupational Survey Analyst, analyzed the data and wrote the final report. Sergeant Harold R. Tackett provided computer programming support for the project. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph Air Force Base, Texas 78150.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel (see distribution list). Additional copies are available upon request to the USAF Occupational Measurement Center, Attention of the Chief, Occupational Analysis Branch (OMY), Randolph Air Force Base, Texas 78150.

PAUL T. RINGENBACH, Col, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center



### SUMMARY OF RESULTS

- 1. Survey Objective: This survey was conducted to acquire data for use in the review and update of the Specialty Training Standards (STS), and to determine the currency of the entry-level training course.
- 2. Survey Coverage: Job inventory booklets were administered worldwide to 32834, 32854, and 32874 airmen. This sample, which included 77 percent of the total personnel assigned to the specialty, was representative of the career ladders as a whole.
- 3. Specialty Jobs (Career Ladder Structure): Based on similarity of tasks performed, 328X4 personnel grouped into seven major technical maintenance job groups and two independent job types. Task differences found between job groups were mainly the result of system worked, job specialization, or in-shop or flightline maintenance. Other differences were the result of increased experience level which tended to award greater responsibility including management and supervisory tasks.
- 4. AFR 39-1 Specialty Description: The AFR 39-1 Specialty Descriptions provide an accurate overview of AFSC 328X4 duties and responsibilities.
- 5. Career Ladder Progression: The 3- and 5-skill level jobs were technical, with very little supervision and management displayed. DAFSC 32874 airmen, while still performing many of the technical tasks, spent a majority of their time in supervisory and managerial functions. Similar trends were found when examining TAFMS groups.
- 6. <u>Training Analysis</u>: Lack of agreement among raters on training emphasis rating reflect a lack of any general consensus of first-term training requirements. The 328X4 STS generally was supported by percent performing data. The POI had numerous blocks with no tasks matched and an extensive list of nonreferenced tasks which should be reviewed by training personnel.
- 7. <u>Implications</u>: The job groups identified in this career ladder reflect a diversified career ladder. Based on survey data, certain areas of the career ladder documents should be reviewed and modified where necessary.

# OCCUPATIONAL SURVEY REPORT AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS CAREER LADDER (AFSC 382X4)

### INTRODUCTION

This is a report of an occupational survey of the Avionic Inertial and Radar Navigation System Specialty (AFSC 328X4), conducted by the Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, TX. A previous survey of this specialty was conducted in April 1978.

### History

The Avionic Inertial and Radar Navigation Systems career ladder was formerly a part of the Communications-Electronic Systems career field, AFS 30XXX. In April 1971, the ladder was merged into the Avionic Systems career field, AFS 32XXX, and was redesignated as the Avionic Inertial and Radar Navigation Systems career ladder, AFS 328X4, with no significant changes in duties and responsibilities. In 1977, responsibility for maintaining and repairing of forward looking and terrain following radar was removed from this specialty and incorporated into the 328X1 Avionics Navigation System career ladder.

### Career Ladder Entry

Personnel entering the Avionic Inertial and Radar Navigation Systems career ladder enter technical school after completing basic military training at Lackland AFB, TX. Initial training for 328X4 personnel is conducted at Keesler Technical Training Center. The basic course (3ABR32834) is a 30.8-week course designed to train new 328X4 personnel in the principles of electronics (18 weeks) and navigation equipment maintenance and repair (12.8 weeks).

Once initial training is completed, 328X4 personnel receive specialized equipment-oriented training at their first assignment. FTD Courses are as follows:

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FTD COURSES	SYSTEMS	HOURS
328X4-000	F-4	120
002	C-141	42
009	C-130	120
014	F-4	56
030	F-4	78
32874ZGW-031	F-4	64
328X4-034	F-4	80
041	KC-135 & B-52	90
046	A-10	35
047	B-52	12
. 048	KC-135	60
049	KC-10	42
090	C-5	12
091	B-52	120
092	KC-135 & B-52	30
096	C-5	72
102	F-4	123
103	C-130	90
111	KC-135	84
117	KC-135	120
124	C-130	150
126	C-5 & 141	30
125	Carousel IV-E	210
127	C-135	160
065	F-4	66
066	F-4	112

The specific FTD courses are the culmination of the training sequence. Their purpose is to give in-depth training on specific INS systems to be worked on by trainees once they are on the job.

### **Objective**

This project was undertaken to provide data for use in the review and update of the Specialty Training Standard (STS) and to determine job content and present training needs. The survey was requested by HQ ATC/TTQ and Keesler Technical Training Center to determine whether changes to training programs are necessary.

The primary responsibilities of personnel in the 328X4 career ladder, as described by AFR 39-1 Specialty Descriptions, involve inspecting; isolating malfunctions; repairing, maintaining, modifying, removing, installing, and testing avionic inertial and radar navigation equipment and associated test equipment; maintaining inspection and maintenance records; and supervising avionic inertial and radar navigation system personnel.

### SURVEY METHODOLOGY

### Inventory Development

The data collection instrument used for this occupational survey was USAF Job Inventory AFPT 90-328-500, dated January 1983. A tentative task list was formulated during visits with personnel at Keesler Technical Training Center (KTTC) to include tasks resulting from the use of specialty training standards and other career ladder documents as a guide. The tentative task list was refined and validated by subsequent visits to operational units with 328X4 personnel assigned. From this process, a final inventory consisting of 778 tasks grouped under 22 duty headings was developed.

The 328X4 inventory consisted of three sections: (1) biographical information which included items such as name, SSAN, number of months on current job, and number of months in military service; (2) a background information section which included questions about such items as job satisfaction, equipment used, type of organization, job title, and training courses completed; and (3) a task section listing all tasks performed by career ladder personnel. Respondents first checked the tasks they performed, and then rated each task as compared to all other tasks checked. The rating scale ranged from one (very small amount of time spent) to nine (very large amount of time spent), with a rating of five representing an average amount of time spent performing a task. To determine the relative amount of time spent on each task, all of the individual's ratings were assumed to account for 100 percent of his or her time on the job. The ratings were then summed and each rating was divided by the total number of task responses and multiplied by 100. This procedure provides a basis for comparing tasks, not only in terms of percent members performing, but also in terms of average percent time spent.

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### Survey Administration

From February 1983 to August 1983, job inventories were administered by local consolidated base personnel offices to all DAFSC 328X4 personnel at the 3-, 5- and 7-skill levels who were eligible to participate in the survey. Members eligible to participate in the survey were selected from Uniform Airman Record (UAR) data tapes generated by the Air Force Human Resources Laboratory (AFHRL).

### Task Factor Administration

In addition to completing the job inventory, selected senior 328X4 personnel were also asked to complete a second booklet for either training emphasis (TE), or task difficulty (TD). The TE and TD booklets are processed separately from the job inventories. The rating information is then used in a number of different analyses discussed in more detail within this report.

Task Difficulty. Each individual completing a task difficulty booklet was asked to rate all of the tasks on a 9-point scale (from extremely low to extremely high) as to the relative difficulty of each task in the inventory. Difficulty is defined as the length of time required by the average member to learn to do the task. Task difficulty data were independently collected from 63 experienced 5- or 7-skill level 328X4 personnel stationed worldwide. The interrater reliability (as assessed through components of variance of standardized group means) was .95, indicating high agreement among TD raters. Ratings were adjusted so tasks of average difficulty have ratings of 5.00 and a standard deviation of 1.00. The resulting data is essentially a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After computing task difficulty for each task item, it was possible to compute a Job Difficulty Index (JDI) for the job groups, when compared to other jobs identified, are more or less difficult. An equation, using number of tasks performed and the average difficulty per unit time spent (ADPUTS) as variables, is the basis for JDI. The index ranges from 1.0 for very easy jobs to 25.0 for very difficult jobs. The indices are adjusted so the average JDI is 13.00. Thus, the more time a group spends on difficult tasks, and the more tasks they perform, the higher the JDI.

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Training Emphasis. In addition to the task difficulty ratings mentioned above, a separate set of ratings on the relative emphasis each task should receive in some type of structured training were collected from senior technicians in the field. These training emphasis (TE) ratings use the same task list but ask the rater to first indicate which tasks should be trained for first-enlistment airmen in the specialty, and then to rate the relative emphasis which should be given each task using a 9-point scale that ranged from very little to very heavy emphasis. Training for first-enlistment personnel includes the resident technical training program, field training detachments, mobile training teams, and formal OJT.

TE ratings were collected from 87 senior 32874 personnel, who represented all the major commands who use 328X4 specialists. The interrater agreement among these 84 raters (as assessed through components of variance of standardized group means) was relatively high, but a close examination of the task ratings revealed extremely high variance for many tasks (high task standard deviations from the mean). This finding suggested that further analysis of the ratings was necessary.

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A number of different ways were tried to analyze the data; finally, the assistance of the Air Force Human Resources Laboratory (Manpower and Personnel Research Division) was sought, since they are the agency which developed the TE rating technology. AFHRL/MO analyzed the ratings statistically, using both a factor analysis procedure and a clustering of ratings on similar rating patterns. This latter analysis resulted in a hierarchical clustering of raters by their policies and the groups of raters were interpreted in terms of the equipment they are responsible for maintaining (or supervising). For example, one group were MADAR supervisors who rated the MADAR tasks quite highly. Six groups were identified, based on similar

rating policies. A significant proportion of the raters (25 percent), however, grouped on their rating strategy; that is, they were using the rating scale differently than most raters—they used only one value (5 or 9) for the tasks requiring training and zeros (No Training Required) for everything else. Their different rating style introduces so much variance into the set of data as to totally confound the results. If these variant raters were to be discarded (to "clean up" the data), too few raters would remain given the wide variety of equipment systems maintained by this specialty. Thus, we cannot have enough confidence in the quality and accuracy of the 328X4 TE data to release it for use in making critical training decisions. Thus, the training analysis undertaken in this report must be based on task data (percent performing) and task difficulty ratings and will not make use of training emphasis ratings.

### Survey Sample

Personnel were selected to participate in this survey to ensure an accurate representation across all MAJCOM and paygrade groups. In this study, all eligible personnel holding DAFSC 328X4, with 3-, 5-, and 7-skill levels, were solicited for their responses. Table 1 reflects the major command distribution of personnel assigned to the 328X4 specialty as of November 1982. Note that MAC, SAC, and the tactical air forces (TAC, PACAF, and USAFE) are the predominate commands, reflecting the relative dispersal of inertial and radar navigation systems across the operational commands. Table 2 reflects the percentage distribution by paygrade. Table 3 reflects the distribution of the survey sample in terms of TAFMS groups. Overall, a representative sample was obtained, with 1,176 (77 percent) respondents sampled from the 1,518 available members of this career field.

Note that about 60 percent of the members of this specialty are E-4 and below and are in their first enlistment (1-48 months TAFMS) (see Tables 2 and 3). This represents a relatively junior maintenance force and training is a very important issue. With such a high proportion of first-enlistment personnel, we can expect that first-termers will be performing most of the jobs in the specialty.

TABLE 1
COMMAND REPRESENTATION OF SAMPLE
(AFSC 328X4)

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	21	22
USAFE	11	10
ATC	7	6
MAC	29	34
TAC	26	23
PACAF	4	2
AFLC	*	*
AFSC	2	3
AAC	*	*

Total 328X4 Personnel Assigned - 1,740
Total 328X4 Personnel Eligible for Survey\*\* - 1,518
Total in Sample - 1,176
Percent of Assigned in Sample - 68%
Percent of Eligible in Sample - 77%

NOTE: Manning figures as of November 1982

<sup>\*</sup> Denotes less than 1 percent \*\* Excludes persons in PCS status, hospital, or less than six weeks on the job

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

PAYGRADE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
AIRMEN	47	49
E-4	16	17
E-5	20	18
E-6 & E-7	17	16

<sup>\*</sup> Does not reflect 9-skill level personnel

NOTE: Manning figures are as of November 1982

TABLE 3
TAFMS DISTRIBUTION SAMPLE

	MON	THS TOTAL	ACTIVE I	EDERAL MI	LITARY SERV	VICE_
	1-48	<u>49-96</u>	97-144	145-192	193-240	241+
NUMBER ASSIGNED	1,029	281	157	142	104	27
NUMBER IN SAMPLE	689	179	138	66	79	22
PERCENT OF TOTAL SAMPLE	58%	15%	12%	6%	7%	2%
PERCENT OF TOTAL ASSIGNED	59%	16%	9%	8%	6%	2%

### SPECIALTY JOBS

One of the most important functions of an occupational survey is to examine the variety of jobs in the career ladder on the basis of what people are actually doing in the field, rather than how official career ladder documents say they are employed. The analysis of actual job structure is made possible by the use of the Comprehensive Occupational Data Analysis Program (CODAP). By using CODAP, job functions are identified on the basis of similarity in tasks performed and relative time spent performing the tasks.

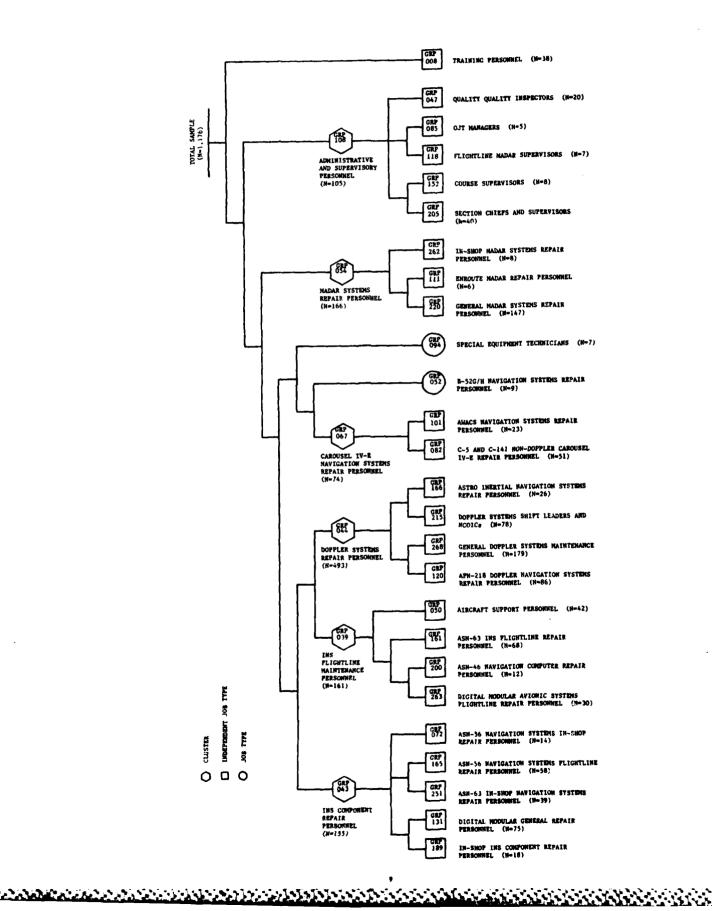
The specialty structure analysis process consists of determining the functional job structure of career ladder personnel in terms of job types, clusters, and independent job types. A job type is a group of individuals who perform many of the same tasks and also spend similar amounts of time performing them. When there is a substantial degree of similarity between different job types, they are grouped together and labeled as clusters. Finally, there are often cases of specialized job types too dissimilar to be grouped into any cluster. These unique groups are labeled independent job types.

### Specialty Structure Overview

The job structure of the Avionic Inertial and Radar Navigation Systems career ladder was determined by performing a job type analysis of the 1,176 survey respondents. Based on task similarity and the amount of time spent performing each task, the jobs performed by 328X4 personnel separated into 26 job groups; all but 3 of which grouped into 6 functional clusters. three remaining job groups were independent job types that included Technical Training Instructors, Special Equipment Technicians, and B-52G/H Navigation Systems Personnel. Although most jobs performed formed into six clusters, no one technical duty area made up a majority of a job incumbent's time in any cluster group. Rather, job time was spread over several technical areas, with the mix of duties and amount of time spent varying considerably among the 328X4 Personnel surveyed. Job diversity is rather great among Avionic Inertial and Radar Navigation Systems Personnel. marked diversity is associated with some very specialized jobs (Special Equipment Technicians, B-52 Repair Personnel, MADAR, and Training Personnel) and the mission or specific aircraft requirements of Tactical Air Forces versus Strategic and Airlift Forces (TAF, SAC, and MAC). The job groups found within this survey are listed below and illustrated in Figure 1. The group (GRP) number shown beside each title is a reference to computer printouts provided to selected users. The letter "N" stands for the number of people in the group\*.

<sup>\*</sup> The N for a cluster will not always equal the sum of the groups within it.

FIGURE 1
CAREER LADDER STRUCTURE
(AFSC 328X4)



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- INERTIAL NAVIGATION SYSTEMS (INS) COMPONENT REPAIR CLUSTER (GRP043, N=155)
  - A. In-Shop INS Component Repair Personnel (GRP189, N=18)
  - B. Digital Modular General Repair Personnel (GRP131, N=75)
  - C. ASN-63 In-Shop Navigation Systems Repair Personnel (GRP251, N=39)
  - D. ASN-56 Navigation Systems Flightline Repair Personnel (GRP165, N=58)
  - E. ASN-56 Navigation Systems In-Shop Repair Personnel (GRP072, N=14)
- II. INS FLIGHTLINE MAINTENANCE PERSONNEL CLUSTER (GRP039, N=161)
  - A. Digital Modular Avionic Systems Flightline Repair Personnel (GRP263, N=30)
  - B. ASN-46 Navigation Computer Repair Personnel (GRP200, N=12)
  - C. ASN-63 INS Flightline Repair Personnel (GRP161, N=68)
  - D. Aircraft Support Personnel (GRP050, N=42)
- III. DOPPLER SYSTEMS REPAIR PERSONNEL (GRP044, N=493)

Secretary Assessment Assessment

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- A. APN-218 Doppler Navigation Systems Repair Personnel (GRP120, N=86)
- B. General Doppler Systems Maintenance Personnel (GRP268, N=179)
- C. Doppler Systems Shift Leaders and NCOICs (GRP215, N=78)
- D. Astro Inertial Navigation Systems Repair Personnel (GRP166, N=26)
- IV. CAROUSEL IV-E NAVIGATION SYSTEMS REPAIR CLUSTER (GRP067, N=74)
  - A. C-5 and C-141 Non-Doppler Carousel IV-E Repair Personnel (GRP082, N=51)
  - B. AWACS Navigation Systems Repair Personnel (GRP101, N=23)
- V. B-52G/H NAVIGATION SYSTEMS REPAIR PERSONNEL (GRP052, N=9)
- VI. SPECIAL EQUIPMENT TECHNICIANS (GRP094, N=7)
- VII. MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR) SYSTEMS REPAIR CLUSTER (GRP054, N=166)
  - A. General MADAR Systems Repair Personnel (GRP220, N=147)
  - B. Enroute MADAR Systems Repair Personnel (GRP111, N=6)
  - C. In-Shop MADAR Systems Repair Personnel (GRP262, N=8)
- VIII. ADMINISTRATIVE AND SUPERVISORY CLUSTER (GRP018, N=105)
  - A. Section Chiefs and Supervisors (GRP205, N=40)
  - B. Course Supervisors (GRP152, N=8)
  - C. Flightline MADAR Supervisors (GRP118, N=7)

- D. OJT Managers (GRP085, N=5)
- E. Quality Control Inspectors (GRP047, N=20)
- IX. TRAINING PERSONNEL (GRP008, N=38)

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The respondents forming these groups accounted for 92 percent of the survey sample. The remaining 8 percent represented personnel who perform unique jobs or were not distinguishable when two or more large clusters merged.

### Job Descriptions

Presented on the following pages are descriptions of each job listed in Figure 1. The information presented is limited to a brief description of the respondents who comprised the job groups and examples of tasks performed which indicate the nature of their jobs. A more extensive list of tasks performed by each group is provided in Appendix A.

- INERTIAL NAVIGATION SYSTEMS (INS) COMPONENT CLUSTER (GRP043, N=155). This cluster contains 155 airmen, or 13 percent of the survey sample. These personnel spend a majority of their time in the day-to-day maintenance and repair of Avionic Navigation Systems primarily in the tactical air forces (TAF), with a few in AF Systems Command. Characteristically, members of this cluster are 3- and 5-skill level personnel performing tasks involving the inspection, maintenance, and repair of avionic inertial and radar navigation systems. Seventy-eight percent of their work time was spent performing technical tasks. Various combinations of onequipment and off-equipment functions were performed by subgroups of these personnel. This cluster contains five different kinds of jobs as discussed below.
- A. In-Shop INS Component Repair Personnel (GRP189, N=18). The members of this group spent a majority (55 percent) of their job time in the performance of off-equipment or in-shop maintenance of inertial navigation systems. Seventy-eight percent of these members are assigned to TAC, 17 percent to USAFE, and 5 percent to PACAF. Approximately 94 percent of this group work on ARN-101 navigation systems, 11 percent work on ASN-48 navigation systems, 50 percent work on ASN-56 navigation systems and 55 percent work on ASN-63 navigation systems. Representative tasks performed included:

isolate malfunctions to inertial computer SRU align inertial platforms bench check inertial platforms remove or replace DMAS IMU SRU bench check general purpose or navigation computers bench check WRCS computers isolate malfunctions to inertial reference unit/inertial platform SRU

align inertial computers bench check output signal distribution units reprogram IMU

These members have an average grade of E-3, and average only 29 months in service. A majority (78 percent) indicated their jobs were interesting.

B. <u>Digital Modular General Repair Personnel (GRP131, N=75)</u>. These 75 personnel work primarily on the digital modular avionic systems for both on- and off-equipment. Members are generally in grade E-4, with an average of 69 months in service. They perform an average of 189 tasks. Common tasks included:

calibrate IMU
bench check IMU
remove or replace IMU
perform DMAS functional checkouts
bench check DMAS computers
bench check DMAS SDC
verify programs in DMAS computer
perform IMU auto-calibrations
isolate malfunctions to DMAS SDC
isolate malfunction to IMU

A majority (77 percent) of these personnel were assigned to three major commands: 39 percent to USAFE, 38 percent to TAC, and 18 percent to AFSC.

C. ASN-63 In-Shop Navigation Systems Repair Personnel (GRP251, N=39). These personnel primarily are responsible for repairing and maintaining the ASN-63 computers. Most of their job time is spent in an in-shop environment. These personnel have an average grade of E-4 and perform an average of 126 tasks. Common tasks include:

bench check inertial platforms
bench check inertial computers
isolate malfunctions to inertial computer SRU
isolate malfunctions to inertial platform SRU
align inertial platforms
align inertial computers
bench check WRCS computer
bench check output signal distribution units
bench check general purpose navigational computer
amplifiers
perform gyro bias calibrations

Seventy-seven percent of these personnel are assigned to TAC. Generally, these members indicated their job was interesting and made wide use of their talents and training; only 44 percent, however, indicated they would reenlist.

D. ASN-56 Navigation Systems Flightline Repair Personnel (GRP165, N=58). This small group of respondents work primarily on the ASN-56 navigation system and work mostly in a flightline environment. They do, however, perform both on- and off-equipment functions. These members have an average grade of E-3, 36 months in military service, and perform an average of 89 tasks. Common tasks include:

isolate malfunctions to inertial computers isolate malfunctions to inertial platforms isolate malfunctions to inertial platform SRU isolate malfunctions to general purpose or navigational computer SRU operationally check inertial systems operationally check general purpose or navigational computer systems operate inertial and radar navigational equipment for checkout of associated avionic systems bench check inertial computers remove or replace inertial computers remove or replace inertial platforms align inertial computers

E. ASN-56 Navigation Systems In-Shop Repair Personnel (GRP072, N=14). These personnel work mainly on the ASN-56 navigation system. Most of their work is performed in-shop. Forty-three percent of these members are in their first enlistment. They have an average of 61 months in military service and perform an average of 72 tasks. Common tasks included:

bench check inertial computers
bench check general purpose or navigational computers
isolate malfunctions to general purpose or navigational
computer SRU
isolate malfunctions to inertial computer SRU
align general purpose or navigational computers
bench check inertial platforms
align inertial platforms
remove or replace general purpose navigational computer
SRU
perform gyro bias calibrations
bench check reconnaissance adapter units

Most of these personnel (86 percent) are assigned to TAC and the remaining personnel are assigned to PACAF.

- II. INS FLIGHTLINE MAINTENANCE PERSONNEL CLUSTER (GRP039, N=161). This cluster contains 161 personnel, or 14 percent of the total survey sample. These personnel spend a majority of their time in day-to-day flightline maintenance and repair of avionic navigation systems. Characteristically, members of this cluster are 3- and 5-skill level personnel performing tasks related to the maintenance and repair of specific types of avionic inertial radar navigation systems in a flightline setting. This cluster contains four different kinds of jobs, as discussed below.
- A. Digital Modulator Avionic Systems Flightline Repair Personnel (GRP263, N=30). Members of this group primarily are responsible for flightline maintenance on digital modulator avionic systems (ARN-101). Although some members of this group spend small amounts of time on the ASN-48 and ASN-63 systems, their tasks relate mainly to the ARN-101 systems. Approximately 90 percent of these members' job time was spent on duties related to on-equipment repair. Eighty-three percent of these personnel are assigned to TAC, 13 percent to USAFE, and 4 percent to PACAF. Personnel have an average grade of E-4, with an average of 49 months in service and perform an average of 84 tasks. Common tasks include:

operationally check DMAS
perform DMAS functional checkouts
isolate malfunctions to IMU
remove or replace DMAS computers
isolate malfunctions to DMAS computers
isolate malfunctions to DMAS signal data converter (SDC)
perform IMU auto-calibrations
remove or replace DMAS IMUB
perform DMAS weapons delivery checkouts

B. ASN-46 Navigation Computer Repair Personnel (GRP200, N=12). These personnel work primarily on ASN-46 navigational systems computers. A majority of their time was spent on on-equipment repair. All of these personnel are in their first enlistment. Their average grade is E-3 and they perform an average of 70 tasks. Common tasks include:

operationally check general purpose navigational computer systems
operationally check inertial systems
remove or replace inertial computers
remove or replace inertial platforms
isolate malfunctions to general purpose navigational computers
isolate malfunctions to inertial platforms
isolate malfunctions to inertial computers
isolate malfunctions to output signal distribution units
remove or replace heading computers
remove or replace general purpose or navigational amplifiers

Only 50 percent of these members indicated their job was interesting and made adequate use of their talents and training (versus 70 to 80 percent for most groups).

C. ASN-63 INS Flightline Repair Personnel (GRP161, N=68). These 68 members basically are responsible for flightline maintenance and repair of ASN-63 INS systems. The average grade of these members is E-3, with an average of 55 months TAFMS. They perform an average of 70 tasks. Common tasks included:

operationally check inertial systems
operationally check WRCS systems
remove or replace inertial platforms
remove or replace inertial computers
remove or replace inertial WRCS computer controls
remove or replace output signal distribution units
isolate malfunctions to inertial computers
isolate malfunctions to WRCS computers
isolate malfunctions to WRCS computer controls
isolate malfunctions to output signal distribution units

D. Aircraft Support Personnel (GRP050, N=42). These personnel spent some of their job time working on INS and performing avionic inertial and doppler radar navigational general maintenance. Primarily they performed aircraft support functions. The majority (63 percent) of these members are in their first enlistment. Their average grade is E-4 and they perform an average of only 35 tasks. Tasks included:

operationally check inertial systems
launch or recover aircraft
remove or replace INU
tow aircraft
secure or safety LRU in aircraft
service aircraft with hydraulic fluid, air, or oil
perform preventive maintenance on inertial and
doppler navigation systems
assist in removing or replacing aircraft mechanical
systems
assist other avionic specialists in repair of other
avionic systems
remove or install access panels

Seventy-three percent of these personnel are assigned to TAC or USAFE. Only 53 percent indicated their job is interesting; slightly more than 60 percent indicated their training and talents are not well utilized, which may suggest major morale problems in this group.

- III. DOPPLER SYSTEMS REPAIR PERSONNEL (GRP044, N=493). This cluster, the largest of the clusters discussed, contains 493 airmen, or 42 percent of the survey sample. The majority of these personnel are assigned to SAC, MAC, and TAC. The primary responsibility of cluster personnel involves the repair and maintenance of the Doppler Navigational Systems (DNS) and associated equipment. Characteristically, members of this group are 3-, 5- and 7-skill level personnel performing tasks involving the inspection, maintenance, and repair of the doppler navigation systems. Similar amounts of job time are devoted to on- and off-equipment functions. This cluster contains four different jobs, as discussed below.
- A. APN-218 Doppler Navigation Systems Repair Personnel (GRP120, N=86). This group contains doppler repair personnel who work primarily on the APN-218 doppler navigation systems. Although a few members of this group indicated they did limited work on other systems, the tasks they performed were related mainly to the APN-218 systems. Eighty-eight percent of these members hold either DAFSC 32834 or 32854, and 78 percent are in their first enlistment. The majority (88 percent) are assigned to SAC, they have an average grade of E-4, and perform an average of 96 tasks. These personnel work on both on- and off-equipment. Tasks representative of this group include:

remove or replace battery units
remove or replace control or display units
remove or replace IMU
remove or replace doppler navigational computers
perform preventive maintenance on inertial and doppler
navigation systems
operationally check doppler navigational computer
systems
operationally check doppler sensor systems
isolate malfunctions to inertial navigation units
isolate malfunctions to relays
isolate malfunctions to carousel IV-E relays,
annunciators or switchers

B. General Doppler Systems Maintenance Personnel (GRP268, N=179). Members of this group typically worked on more than one doppler system. The two doppler systems most commonly worked on were the ARN-218 and ARN-147. The adverse weather aerial delivery systems (AWADS) system was also maintained by some members of this group. Duties and tasks performed primarily involved C-130 and KC-135 aircraft. These personnel worked on both on- and off-equipment. Seventy percent of these individuals are in their first enlistment, with an average grade of E-4. They perform an average of 153 tasks. Representative tasks include:

bench check doppler sensor frequency trackers bench check doppler sensor RT

bench check doppler sensor antennas
isolate malfunctions to doppler systems receivertransmitter (RT)
isolate malfunctions to doppler sensor frequency trackers
isolate malfunctions to doppler navigational computers
align doppler sensor frequency trackers
align doppler sensor RT
operationally check doppler sensor systems
operationally check doppler navigational computer
systems

C. Doppler Systems Shift Leaders and NCO.Cs (GRP215, N=78). This is a highly experienced group, with 90 percent holding 5- or 7-skill levels. They perform one of the broadest job of all groups described (average of 206 tasks) and have an average of 111 months TAFMS. These personnel perform both on- and off-equipment repairs and are involved primarily with maintenance of doppler equipment, as well as supervision of personnel. Representative tasks included:

provide technical assistance for job-related problems encountered by subordinates supervise Apprentice Avionic Inertial and Radar Navigation Systems Specialists (AFSC 32834) conduct OJT ... demonstrate operation of equipment isolate malfunctions to associated aircraft equipment operationally check INS

D. Astro Inertial Navigation Systems Repair Personnel (GRP166, N=26). All 26 of these respondents are assigned to SAC in support of SR-71 or U2/TR-1 systems. Part of the function of these members is classified. Generally, they work with the Astro INS. Characteristically, these personnel have an average grade of E-4 and perform an average of 128 tasks. Common tasks include:

perform SR-71 or U2/TR-1 mission configuration remove or replace chronometers remove or replace control and display units (CDU) remove or replace battery units (BU) bench check astro inertial units align astro inertial units bench check chronometers operationally check inertial systems inspect computer maintenance panels (NSA-14V2) inspect system temperature and voltage monitor (NSA-14V2)

IV. CAROUSEL IV-E NAVIGATION SYSTEMS REPAIR CLUSTER (GRP067, N=74). This small cluster contains 74 airmen. The primary responsibility of personnel in this cluster involves repairing and maintaining the Carousel IV-E Navigation Systems in both shop and flightline locations. Personnel in this cluster perform an average of 82 tasks. These personnel are assigned to both MAC and TAC. Most of these personnel hold the 3- and 5-skill level (36 percent and 45 percent, respectively). Overall, 75 percent report their job as interesting and their talents and training are well utilized.

Within this cluster, there are two job types:

A. C-5 and C-141 Non-Doppler Carousel IV-E Repair Personnel (GRP082, N=51). A majority (92 percent) of this job group are assigned to MAC, with others being in ATC. These personnel primarily are responsible for maintaining and repairing the Carousel IV-E System on the C-5 and C-141 aircraft. These personnel have an average grade of E-4 and 69 percent are in their first enlistment. They are involved with both on- and off-equipment maintenance and perform an average of 85 tasks. Representative tasks included:

remove or replace minor hardware on LRU, test sets or mockups, such as knobs or lamps remove or replace control and display units (CDU) remove or replace ledex relays remove or replace navigational select panels upper switch assemblies remove or replace relays operationally check inertial systems isolate malfunctions to navigation course select panel or navigation selector panel (NSP) isolate malfunctions to ledex relays operationally check INS interface with associated equipment other than DMAS

B. AWACS Navigation Systems Repair Personnel (GRP101, N=23). Twenty-one of these 23 members are assigned to TAC and are responsible for maintaining and repairing AWACS Navigation Systems. The average grade of these individuals is E-4, with an average of 61 months TAFMS. They perform an average of 76 tasks. Common tasks include:

operationally check inertial systems
operationally check Omega systems
isolate malfunctions to Omega receiver computers
isolate malfunctions to inertial navigation units (INU)
isolate malfunctions to associated aircraft equipment
isolate malfunctions to Omega systems or associated
avionic systems
launch or recover aircraft
isolate malfunctions to Omega mode select units
reprogram Omega systems

V. B-52G/H NAVIGATION SYSTEMS REPAIR PERSONNEL (GRP052, N=9). These personnel are assigned to SAC. They perform a specialized mission which involves older B-52G/H aircraft. They are primarily responsible for the day-to-day maintenance and repair of the navigation equipment aboard the aforementioned aircraft. They work on both on- and off-equipment. These personnel have an average grade of E-3, 89 percent are in their first enlistment, and they perform an average of only 49 tasks. Common tasks include:

remove or replace IMU
remove or replace doppler navigational computers
remove or replace battery units (BU)
remove or install access panel
remove or replace doppler sensor frequency trackers
operationally check doppler navigational computer
systems
operationally check inertial systems
bench check doppler navigation computers
reprogram INS digital computers
isolate malfunction to inertial navigational units (INU)

These personnel are fairly inexperienced, having an average of only 24 months in service. Although they indicated their jobs are interesting and talents and training are adequately utilized, only 44 percent say they will reenlist.

VI. SPECIAL EQUIPMENT TECHNICIANS (GRP094, N=7). These personnel are assigned to TAC, SAC, MAC, and ATC. They perform a specialized function which involves calibration of systems performance test sets. Calibration of the systems performance test sets require special training which is conducted at Kelly AFB for selected airmen. The job of these respondents include routine INS tasks and tasks related to the specialized function mentioned above. Four of these group members are 7-skill level, with two individuals holding 3- and 5-skill levels. The average grade is E-4, with an average of 103 months in service. They perform the broadest job of all groups described (average of 666 tasks). Common tasks included:

calibrate systems performance test sets (SPTS)
calibrate microwave test fixtures
secure or safety LRU in aircraft
operate power AGE
perform marriage adjustments of installed LRU
remove or replace INU
implement precision measuring equipment monitoring
procedures
maintain precision measuring equipment laboratory
test equipment schedules

bench check Keyer control/control and display units perform gyro bias calibrations isolate malfunctions to platform continuity checkers

- VII. MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR) SYSTEMS REPAIR CLUSTER (GRP054, N=166). This group of repair personnel, comprising 14 percent of the survey sample, performed a special job involving the repair and maintenance of the MADAR system. These personnel work on C-5 and C-141 aircraft systems. They performed both on- and off-equipment maintenance, which accounted for 48 percent of their job time, with general INS repair functions consuming the remaining job time. All of these personnel are assigned to MAC. Fifty-one percent of these MADAR system personnel held 5-skill level DAFSC; 32 percent held 3-skill level, while 7-skill level technicians made up 16 percent. Seventy-two percent of these 166 airmen were in their first enlistment. The average group member performs 72 tasks. Within this cluster, three different jobs were identified:
- A. General MADAR Systems Repair Personnel (GRP220, N=147). This group of 147 airmen performs maintenance and repair on the MADAR system and other general INS functions. Forty-nine percent of their job time was spent on tasks directly related to MADAR functions. These personnel work both in-shop and on the flightline. Seventy-four percent of these personnel are in their first enlistment and perform an average of 101 tasks. Common tasks include:

isolate malfunctions to MADAR signal acquisition remotes (SAR)
isolate malfunctions to MADAR data retrieval units (DRU)
isolate malfunctions to MADAR printout units (POU)
remove or replace MADAR SAR
remove or replace MADAR DRU
remove or replace MADAR SCU
reprogram MADAR computers

- Only 40 percent of the MADAR airmen felt their training was adequately utilized. This impression is probably a result of performing tasks restricted primarily to the MADAR system.
- B. Enroute MADAR Systems Repair Personnel (GRP111, N=6). This small group comprise those personnel who provided enroute or transit maintenance on MADAR systems. The main distinction between these airmen and the general MADAR systems repair personnel is that these personnel perform primarily routine flightline maintenance on transit aircraft. They are experienced personnel having an average grade of E-6, with an average of 159 months in service. As more senior technicians, they are also first-line supervisors. These members perform an average of 90 tasks; these include the MADAR tasks outlined above. Other tasks they perform include:

refuel or defuel aircraft
operate non-powered AGE
launch or recover aircraft
operate powered AGE
tow aircraft
counsel subordinates on personal or military-related
problems
assist in removing aircraft or replacing aircraft
mechanical systems
assist other avionic specialists in repair of other
avionic systems
install or remove 780 equipment

C. In-Shop MADAR Systems Repair Personnel (GRP262, N=8). This group of MADAR personnel is primarily involved with in-shop maintenance. They perform off-equipment malfunction analysis detection and recording (MADAR) systems functions. Common tasks included:

bench check MADAR DRU
bench check MADAR ODRU
bench check MADAR SCU
bench check MADAR MDR
program MADAR computers
align MADAR POU
align MADAR MMUX
align MADAR SCM
align MADAR CMA
align MADAR CSU

These In-Shop MADAR Repair Personnel have an average grade of E-4, an average of 39 months in service, and most (75 percent) are in their first enlistment. All of these members are assigned to MAC and they perform an average of 79 tasks. Job satisfaction indicators are generally positive for this group, with one-half of the group indicating they will reenlist.

VIII. <u>ADMINISTRATIVE AND SUPERVISORY CLUSTER (GRP018, N=105)</u>. This cluster contains 9 percent of the survey sample. Cluster personnel, on the average, spent over 70 percent of their job time on supervisory-type duties, such as inspecting and evaluating, directing and implementing, and training. Typical tasks included:

coordinate work with other sections draft correspondence conduct or participate in staff meetings evaluate compliance with work standards indoctrinate newly assigned personnel Eighty-three percent of these individuals hold the 7-skill level and they supervise an average of six subordinates. Members of this cluster group average 157 months in the career field, 179 months in service, and all job satisfaction indicators are relatively high. This cluster has five job types which are discussed below:

A. <u>Section Chiefs and Supervisors (GRP205, N=40)</u>. The 40 members of this job type spend most of their time (69 percent) in supervisory duties common to the cluster. They supervise personnel in the performance of tasks related to the INS systems. With 95 percent holding the 7-skill level DAFSC, the group has an average grade of E-6, and supervises an average of 7 people. They perform an average of 202 tasks. Common tasks include:

provide technical assistance for job-related problems schedule work assignments counsel subordinates on personal or military-related problems prepare APRs establish work priorities

B. Course Supervisors (GRP152, N=8). These personnel are primarily involved with the supervision of Course instructors. They spent 85 percent of their job time on planning, directing and implementing, inspecting and evaluating, and training. With an average grade of E-6, an average of 182 months in service, they perform an average of 85 tasks. Common tasks included:

evaluate training performance evaluate instructor performance counsel trainees on training progress evaluate progress of training evaluate training methods, techniques or programs direct training course

The second and second and second as

C. <u>Flightline MADAR Supervisors (GRP118, N=7)</u>. This small group of respondents are supervisors on the flightline for personnel maintaining and repairing the MADAR system. These personnel are experienced supervisors, having an average of 182 months in service and performing an average of 84 tasks. Common tasks include:

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teach MADAR troubleshooting techniques direct flightline maintenance activities supervise Avionic Inertial and Radar Navigation Systems Specialists (AFSC 32854) schedule work assignments prepare APRs establish work priorities D. OJT Managers (GRP085, N=5). These management personnel spent 29 percent of their time performing training functions. Their primary function involved planning, scheduling, and administering on-the-job training. These personnel are highly skilled, having an average grade of E-6, an average of 189 months in service, and performing an average of 31 tasks. Common tasks include:

maintain training records select personnel to attend training programs indoctrinate newly assigned personnel review training reports assign on-the-job training trainers

E. Quality Control Inspectors (GRP047, N=20). These personnel are responsible for day-to-day quality control. They provide a double check on the accuracy and quality of repair and calibration work done on systems and equipment. The three duties occupying most of the job time of these individuals are inspecting and evaluating (41 percent), directing and implementing (18 percent), and organizing and planning (15 percent). Ninety percent of these personnel hold 7-skill level DAFSC. They have an average of 183 months in service and perform an average of 49 tasks. Typical tasks include:

evaluate compliance with work standards inspect maintenance activities perform quality assurance checks write inspection reports write staff studies, surveys, or special reports, other than training reports conduct safety inspections inspect consolidated took kits

IX. TRAINING PERSONNEL (GRP008, N=38). This group of 38 members is composed primarily of avionic inertial and radar navigation technicians serving as classroom instructors. Although these members average six years in the career field, the job they perform is rather limited in scope. Sixty-five percent of their job time is devoted specifically to training and 10 percent to directing and implementing, while the remainder is devoted to administrative and technical duties. Typical tasks include:

conduct residence course training
evaluate progress of trainees
administer or score tests
demonstrate operation of equipment
counsel trainees on training progress
counsel subordinates on personal or military-related
problems

conduct remedial training develop course curricula, POI, or STS maintain training equipment evaluate training methods techniques or programs

All of these personnel are assigned to ATC and the majority feel their jobs are interesting and made adequate use of their talents and training.

### Comparison of Specialty Jobs

Jobs within this specialty vary in terms of navigation systems and models of aircraft worked on, number of tasks performed, and various other factors. Several tables (see Tables 4, 5, and 6) are presented which contrast the difference between the job groups identified. The data in these tables summarize information about job groups.

Members of the 328X4 career field forming clusters and job types were distinguished by the type of system or systems they maintained. The primary factors influencing the grouping or jobs in the career ladder were functions such as management, supervision, maintenance and repair of systems, and training. Specialization within this career field also results from respondents specializing on doppler navigation systems or inertial navigation systems and whether they perform on-equipment or off-equipment maintenance or both.

The job difficulty for each job group identified within the specialty is presented in Table 6. Overall, the range of variability was fairly great in terms of the relative degree of difficulty of each job performed. The special equipment technicians, who performed an average of 666 tasks, had the highest JDI (22.9), while the aircraft support personnel group, who performed an average of 35 tasks, had the lowest (3.6). This degree of variation indicates there are some very real differences in the difficulty of the jobs. The extremely high JDI of special equipment technicians, along with the extra training their job requires, indicates it exceeds the normal requirements of the career ladder. In many ways, this job is similar to PMEL jobs (AFSC 324X0).

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The various job groups displayed few differences in their attitudes about their jobs. The majority of individuals felt their jobs were interesting and their talents and training were well utilized. Reenlistment intent was also positive among all groups, with the exception of ASN-63 In-Shop Navigational System Repair Personnel and B-52G/H Navigation Systems Repair Personnel. Slightly less than 50 percent of the members of those two groups indicated they would reenlist.

### Summary

As shown by the career ladder analysis, survey respondents perform diverse jobs involving various inertial navigation systems. Essentially, most of the variability in specialty jobs was a function of differences in type of system, doppler versus INS, and flightline maintenance versus in-shop maintenance. In-shop or flightline-oriented activities accounted for the largest percentages of the relative job time for all technical job groups.

Finally, job satisfaction was fairly high for a majority of the individuals working in the 328X4 career field and high percentages of individuals indicated they plan to reenlist.

One minor potential problem area is the small group of special equipment technicians who, in addition to the normal 328X4 tasks, are also performing PMEL type functions (calibrate test sets, maintain PMEL test equipment schedule, etc.). The number of individuals is small (7 people), but their jobs appear to overlap with PMEL (AFSC 324X0).

TABLE 4

# RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

INS COMPONENT REPAIR JOB TYPES

ASN-63 ASN-56 ASN-56  INS IN-SHOP DIGITAL NAV NAV  COMP INS COMP MODULAR SYSTEMS FLTL IN-SHOP  REPAIR REPAIR REPAIR REPAIR REPAIR REPAIR  CLUSTER PERS PERS PERS PERS  (GRP043, (GRP189, (GRP131, (GRP251, (GRP165, (GRP072, N=155) N=18) N=75) N=39) N=58) N=14)	3 2 2 4 4 5 5 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 2 4 2 * 3 9 9 8 8 16 17 2 1 2 2 2 5 1	6 * * * 6	16 25 11 16 15 28 8 4 14 * * * 1 9 21 13 * * * * * * * * * * * * * * * * * *	4     1     3     7     9     1       9     9     9     5     12     15     19       5     *     4     10     1     -     19       8     8     6     15     1     -       *     -     -     -     -     -       *     -     -     -     -	MAR) *
UTIES	ORGANIZING AND PLANNING DIRECTING AND IMPLEMENTING INSPECTING AND EVALUATING TRAINING	PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS PERFORMING AIRCRAFT GENERAL SUPPORT FUNCTIONS PERFORMING AVIONIC INERTIAL AND DOPPLER RADAR NAVIGATIONAL SYSTEM GENERAL	MAINTENANCE FUNCTIONS MAINTAINING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS MAINTAINING OFF-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS MAINTAINING ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	MAINTAINING OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS EQUIPMENT MAINTAINING ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (DHAS) MAINTAINING OFF-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (DMAS) MAINTAINING ON-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	(SUCH AS ASN-6/7/74 OR ASN-35 & 46) MAINTAINING OFF-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS MAINTAINING ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (WRCS) MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (WRCS) MAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS MAINTAINING OFF-EQUIPMENT OMEGA NAVIGATION SYSTEMS	SYSTEMS SYSTEMS SYSTEMS MAINTAINING OFF-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR) SYSTEMS MAINTAINING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR) SYSTEMS MAINTAINING ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM (FSAS) MAINTAINING CATEGORY II/PECULIAR (PEC) TEST FOULDMENT AND MOCK-UPS

TABLE 4 (CONTINUED)

RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

		INS	INS FLTL MAINT PERS JOB TYPES	PERS JOB IY	PES
	DIG MOD INS	AVIONIC	ASN-46	ASN-63	
	MAINT	FLTL	COMPUTER	FLTL	AIRCRAFT
	PERS	REPAIR prps	REPAIR	REPAIR	SUPPORT
COLUMN	(GRP039,	(GRP263,	(GRP200,	(GRP161,	(GRP050,
DUILES	N=161)	N=30)	N=12)	N=68)	N=42)
A ORGANIZING AND PLANNING	2	7	<b>,-</b> 4	7	-
	m	7	1	7	7
C INSPECTING AND EVALUATING	9	7	<b>~</b>	ო	က
D TRAINING	က	က	-	4	က
E PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS	∞	9	σ,	7	11
	15	σ	19	12	22
G PERFORMING AVIONIC INERTIAL AND DOPPLER RADAR NAVIGATIONAL SYSTEM					
GENERAL MAINTENANCE FUNCTIONS	18	16	20	16	23
H MAINTAINING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	*	•	*	1	~
I MAINTAINING OFF-EQUIPHENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	•	•	1	•	•
J MAINTAINING ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	21	14	<b>5</b> 6	21	29
K MAINTAINING OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS EQUIPMENT	~	7	ന	-	*
		7	က	7	*
M MAINTAINING OFF-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (DMAS)	-i<	*	ı		•
N MAINTAINING ON-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS					
	7	က	17	12	1
O MAINTAINING OFF-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	*	•	-	*	*
UTER SYSTEMS (	80	-	-	18	-
Q MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (WRCS)	÷	•	ķ	*	*
R MAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS	-}c	•		•	•
S MAINTAINING OFF-EQUIPMENT OMEGA NAVIGATION SYSTEMS	<b>⊰</b> <	•	•	*	•
T MAINTAINING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR)				•	
SYSTEMS	k	•	•	ķ	
U MAINIAINING OFF-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR) SYSTEMS	1		·	•	1
V MAINTAINING ON-POLITIPMENT FIRST SAUTHGE ADVISORDY SYSTEM (FRAS)	ı -ţc	ı <b>4</b> ¢	*	-	*
MAINTAINING CATEGORY II/PECULIAR (PEC) TEST EQUIPMENT	: <b>-</b> *	*	*		*
				ı	

TABLE 4 (CONTINUED)

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# RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

		DOPPLER	SYSTEMS RE	DOPPLER SYSTEMS REPAIR PERS JOB TYPES	OB TYPES
	DOPPLER SYSTEMS	APN-218 DOPPLER NAV	GENERAL DOPPLER	DOPPLER SYSTEMS	ASTRO INERTIAL NAV
	REPAIR PERS CLUSTER	SYSTEMS REPAIR PERS	SYSTEMS MAINT PERS	SHIFT LEADERS	SYSTEMS REPAIR PFRS
TIES	(GRP044, N=493)	(GRP120, N=86)	(GRP268. N=179)	(GRP215, N=78)	(GRP166, N=26)
ORGANIZING AND PLANNING	2			7	-
DIRECTING AND INFLERENTING INSPECTING AND EVALUATING	რ ∢	ო :	<b></b> (	~ 0	ကေ
TRAINING	1 4	te	n c	o oc	m m
PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS PERFORMING AIDCRAFT CENERAL SIMPORE FINGUISMS	6	11	م ا	) II	. 01
PERFORMING AVIONIC INERTIAL AND DOPPLER RADAR NAVIGATIONAL SYSTEM	m	<b>.</b>	2	12	7
GENERAL MAINTENANCE FUNCTIONS	14	18	12	11	12
MAINTAINING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	12	14	16	11	<u> </u>
MAINTAINING OFF-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS MAINTAINING ON-FOLLDMENT INDEPTAL WALLOAD SYSTEMS	15	11	26	13	4
MAINTAINING OFF-FOIITDMENT/INFOTTAL MAVITCATTCATTCATTCATTCATTCATTCATTCATTCATTCA	17	22	11	13	24
MAINTAINING ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (DMAS)	<b>∽</b> ∻	<b>4</b>	<b>⊅</b> ∤	ന	10
<b>′</b>	: -}¢	: - <	< +<	< -k	{c -}c
FATINIAINING ON-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS (SIICH AS ASN-6/7/7A OR ASN-25 E. AS)	•	1			
MAINTAINING OFF-FOIITPMENT CENTRAL DIDDOCT OD NAVICATIONAL COMMITTEDS	က		4	-	-
MAINTAINING ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (URCS)	ო ⊹ა		•	4	7
MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (WRCS)	*	•	< <b>-</b> }<	c 4c	1 1
MAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS MAINTAINING OFF-FOILIDMENT OMEGA NAVIGATION SYSTEMS	<b></b>	į	*	નંદ	•
MAINTAINING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING (MADAR)	}¢	•	<b>-</b> }<	-jc	
SYSTEMS MAINTAINING OFF-FOIITDMENT MAISINGHION ANALYSES DEFECTABLY AND	-	÷¢	-	٠ţ¢	•
SYSTEMS SYSTEMS	*	•	-}c		ı
RY SYSTEM	÷	•	*	ı	1 1
MAINIAINING CAIEGURY 11/PECULIAR (PEC) TEST EQUIPMENT AND MOCK-UPS	4	2	4	9	18

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TABLE 4 (CONTINUED)

RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

OF THE SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS  TABLE 4 (CONTINUED)  OF THE SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS  CAROUSEL C-5 & C-141 AMACS  IV-E NOW-DOPPLER NAV  NAV SYS CAROUSEL SYSTEMS  CLUSTER PERFAIT REPAIR  CLUSTER PERFAIT REPAIR  CLUSTER PERFAIT REPAIR  CLUSTER PERFAIT REPAIR  N=30  N=30  N=30  N=30  N=10  N=20  N=2	* * * * * * * * * * * * * * * * * * *				B-52G/H  NAV SYS SPECIAL  REPAIR EQUIP  PERS TECH  (GRP052, (GRP094, N=9)	***		4 4 6 4	22 11	100 00 00 00 00 00 00 00 00 00 00 00 00	•	c -jc	*			<b>+</b>	•	- 34	100
TABLE 4 (CONTINUED)  VE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS  CAROUSEL C-5 & CAROUSEL CAROUSEL REPRESSIONED CAROUSEL				B TYPES	\$5 ~ [	2 52 5	* ~ ;	88	14	21.	*		2			15		ı	
VE PERCENTAGE OF TIME  TAB  VE PERCENTAGE OF TIME  TIONS  RADAR NAVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEMS  AVIONIC SYSTEMS  AVIONIC SYSTEMS  WE SYSTEMS  VALUE DETECTION AND RE  ALYSIS DETECTION A			DB GROUPS	CAROUSEL JO	C-5 & C-141 NON-DOPPLER CAROUSEL IV-E REPAIR PERSONNEL (GRP082, N=51)	3 1	14;	3 €	18	* "	16	: 1	*	*		€ →	je +	k	ı ı <
VE PERCENTAGE OF TIME  TAB  VE PERCENTAGE OF TIME  TIONS  RADAR NAVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIGATIONAL SYSTEMS  AVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEM (DHAS)  RAVIONIC SYSTEMS  AVIONIC SYSTEMS  AVIONIC SYSTEMS  WE SYSTEMS  VALUE DETECTION AND RE  ALYSIS DETECTION A			FUNCTIONAL JO		CAROUSEL IV-E NAV SYS REPAIR CLUSTER (GRP067,	~ <b>7</b> 7	, vo :		17	30 1 1	:=*			*		ν÷	<b>k</b> 4	*	
д емпина шнижити отожит в уз		TABLE 4 (CONTINUED)	TIME			G AND PLANNING AND IMPLEMENTING G AND EVALUATING	IG MAINTENANCE HANAGEMENT FINCTIONS		. MAINTENANCE FUNCTIONS ING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	IING OFF-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS IING ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	IING OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS EQUIPMENT IING ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (NMAS)		VIGALIONAL	AVIGATIONAL	OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SISTEMS (	ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS OFF-EQUIPMENT OMEGA NAVIGATION SYSTEMS	ON-EQUIPMENT MALFUNCTION ANALYSIS	_	ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM CATEGORY 11/PECULIAR (PEC) TEST EQUIPMENT

TABLE 4 (CONTINUED)

ANSWERS THE RESERVED TO SERVE THE RESERVED TO SERVE THE PROPERTY OF THE PROPER

# RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

			MADAR S	MADAR SYSTEMS JOB	TYPES
		MADAR	GENERAL	ENROUTE	IN-SHOP MADAR
		SYSTEMS REPAIR	SYSTEMS	SYSTEMS	SYSTEMS
		CLUSTER	PELS	PERS	PERS
3	DUTIES	(GRP054, N=166)	(GRP220, N=147)	(GRP111, N=6)	(GRP262, N=8)
¥	ORGANIZING AND PLANNING	•	0,1	c	
<b>~</b>	DIRECTING AND IMPLEMENTING	7	3 5	0 rc	<b>3</b> 4
ပ န	INSPECTING AND EVALUATING	7	6	9	- 4
<b>a</b> 6	TRAINING	7	<b>∞</b>	S	. ო
<b>1</b>	PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS	9	2	9	ß
4 0	PERFORMING AMICNATO THERMAL SUPPORT FUNCTIONS	7	21	က	*
כ	CENTEDAT MAINTENANCE THEKTIAL AND DOPPLER RADAR NAVIGATIONAL SYSTEM				
Þ		11	6	5	4
<b>=</b> -	חז	-	*	2	1
<b>-</b> -		•	*	5	•
<b>)</b>	ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	19	11	11	2
4 -	OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS	7	ή¢	7	2
4 7	ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (	水	*	7	7
E 2		*	*	7	1
5	CHICH AS ASULA 17 AS OF ASM 25 5 73				
c		-}<	•	က	
۵ ۵	_	*	•	က	ı
4 0	ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (	•	ı	2	
<b>&gt;</b> 0	OFF-EQUIPMENT WEAPONS RELEASE	•	,	က	•
<b>4</b> 0		*	1	1	1
o F	MAINTAINING OFF-EQUIPMENT OMEGA NAVIGATION SYSTEMS	ı	ı	*	•
<b>-</b>	MAINTAINING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND RECORDING				
n	(TADAK) SYSTEMS MAINTAINING OFF-FOUTPMENT MAIFUNCTION ANAIVSTS DETECTION AND DECORDATION	37	12	က	10
	•	13	I	٧	,
>	MAINTAINING ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM (FSAS)	7.† *		<b>†</b> -	59
3	TEST EQUIPMENT	*	•	12	٠ .
					•

TABLE 4 (CONTINUED)
RELATIVE PERCENTAGE OF TIME SPENT ON DUTIES BY FUNCTIONAL JOB GROUPS

ADMIN & SUPVY JOB TYPES

	ADMIN &	SECTION CHIEFS &	COMPSE	FLTL	ΤΉ	QUALITY	TDATUTUC
	CLUSTER	SUPVs	SUPVs	SUPVs	MANAGERS	INSP	PERS
DUTIES	(GRP018, N=105)	(GRP205, N=40)	(GRP152, N=8)	(GRP118, N=7)	(GRP085, N=5)	(GRP047, N=20)	(GRP008, N=38)
A ORGANIZING AND PLANNING	77	13	15	0	71	7.	,
B DIRECTING AND IMPLEMENTING	21	20	2 5	7,	28 1		† <u>c</u>
C INSPECTING AND EVALUATING	22	50	16	14	19	<b>4</b> 1	, ru
D TRAINING	15	15	35	14	29	S	65
E PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS	14	16	7	S	6	10	9
	7	7	*	4	1		-
CENTEDAT MINIMUM TOTAL THE CONTROL OF THE RADAR NAVIGATIONAL SYSTEM							
GENERAL MAINTENANCE FUNCTIONS	4	2	*	S	•	9	
H MAINIAINING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	*	-	<b>-</b>	•	•	•	*
כיז	*	*		,	•	•	7
ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	က	e	-	∞	•	•	-
	*	1	1	1	•	,	7
NIC SYSTEM (	ı	ı	•	•	•	,	•
ONIC SYSTEM	•	•	•	,	•	,	•
M MAINTAINING ON-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS							
(SUCH AS ASN-6/ // A UR ASN-35 & 46)	*	-	•	•	•	,	*
U MAINTAINING OFF-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	*	*	*	•	•	•	-
MAINTAINING ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (	*	*	•	1	1	,	•
Q MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS (WRCS)	*	*	•	•	•	ı	2
MAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYS	*	*	•	•	•	•	
လ	*	*	•	1	•	•	•
PECONING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND							
	-		ო	12	1	ı	•
DECORDING OFF-EQUIPMENT MALEUNCTION ANALYSIS DETECTION AND	•		,	•			
WELLWING ON TOUR THE	*	•	7	-k	•	1	•
MAINTAINING ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM		•	•	•	•	•	•
W MAINIAINING CATEGORY 11/PECULIAR (PEC) TEST EQUIPMENT AND MOCK-UPS	7	7	•	1	•	Ŋ	

TABLE 5

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

		I	INS COMPONENT REPAIR JOB TYPES	NT REPAIR	JOB TYPES	
	INS COMP REPAIR CLUSTER (GRP043,	IN-SHOP INS COMP REPAIR PERS (GRP189,	DIGITAL MODULAR REPAIR PERS (GRP131,	ASN-63 IN-SHOP NAV SYSTEMS REPAIR PERS (GRP251,	ASN-56 NAV SYSTEMS FLTL REPAIR PERS (GRP165,	ASN-56 NAV SYSTEMS IN-SHOP REPAIR PERS (GRP072,
HOW DO YOU FIND YOUR JOB:	1001-11	10)	(C)-W	N-35)	(oC-N	(h1-V
DULL SO-SO INTERESTING OTHER	7 12 81	6 16 78 -	5 11 84	5 13 82	0 20 80 -	14 7 72
HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	13 87	11 89	11 89	13 87	20 80	21 79 -
HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	15 85	100	20 -	8 6 -	20 -	14 86 -
DO YOU PLAN TO REENLIST: NO, WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES OTHER	2 37 60 1	39 61	3 30 67	3 44 2	- 40 60 -	_ 21 79

Columns may not add to 100 percent due to "no response" or rounding NOTE:

TABLE 5 (CONTINUED)

1966 - September 1966 - Market Market

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

	DIG MOD	INS	INS FLTL MAINT PERS JOB TYPES	PERS JOB T	YPES
·	INS INS FLTL MAINT PERS CLUSTER (GRP039,	AVIONIC SYSTEMS FLTL REPAIR PERS (GRP263,	ASN-46 NAV COMPUTER REPAIR PERS (GRP200,	ASN-63 INS FLTL REPAIR PERS (GRP161,	AIRCRAFT SUPPORT PERS (GRP050,
HOW DO YOU FIND YOUR JOB:	N=161)	N=30)	N=12)	N=68)	N=42)
DULL SO-SO	15	. EI	25 25	9	32
INTERESTING OTHER	62	<b>78</b>	20	90 7	53
HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	41 58 1	30	50	30 65 -	61 38 2
HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	45 54 1	33 67 -	50 50 -	09	94 33 3
DO YOU PLAN TO REENLIST: NO, WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES OTHER	4 26 70 -	3 30 67	0 20 50 -	6 24 70 -	22 76 -

Columns may not add to 100 percent due to "no response" or rounding NOTE:

TABLE 5 (CONTINUED)

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

		DOPPLER	SYSTEMS RE	DOPPLER SYSTEMS REPAIR PERS JOB TYPES	OB TYPES
	DOPPLER SYSTEMS REPAIR PERS CLUSTER (GRP044,	APN-218 DOPPLER NAV SYSTEMS REPAIR PERS (GRP120,	GENERAL DOPPLER SYSTEMS MAINT PERS (GRP268,	DOPPLER SYSTEMS SHIFT LEADERS & NCOICS (GRP215,	ASTRO INERTIAL NAV SYSTEMS REPAIR PERS (GRP166,
HOW DO YOU FIND YOUR JOB:	N=493)	N=86)	N=1/9)	N=/8)	(07=N
DULL SO-SO INTERESTING OTHER	7 111 81	8 14 76 2	6 7 87 -	5 13 81 1	- 15 85 -
HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	15 85	20 79 1	90 1	14 86 -	15 85 -
HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	24 76 -	31 68 1	16 84 -	18 82 -	39 61
DO YOU PLAN TO REENLIST: NO, WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES OTHER	4 29 66 1	2 29 69	28 68 1	12 23 65	39 61 -

Columns may not add to 100 percent due to "no response" or rounding NOTE:

TABLE 5 (CONTINUED)

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

		HOW DO YOU FIND YOUR JOB:	TING	SO-SO INTERECTING	OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS:	VERY LITTLE OR NOT AT ALL RAIDEV WRIT TO PERFECTIV	OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING:	VERY LITTLE OR NOT AT ALL	FAIRLY WELL TO PERFECTLY OTHER	DO YOU PLAN TO REENLIST:	NO, WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES	OTHER
	CAROUSEL IV-E NAV SYS REPAIR CLUSTER (GRP067,		11	14 75	2 1	ç	18 82	•		35	9 '		- 28 69	က
CAROUSEL JOB TYPES	C-5 & C-141 NON-DOPPLER CAROUSEL IV-E REPAIR PERSONNEL (GRP082,		∞ (	× 78	1		12 88	ŕ		31	S '		31	7
B TYPES	AWACS NAV SYSTEMS REPAIR PERS (GRP101,		17	29 24	•	9	8 2			74 74 74	3 1		- 22 74	4
	B-52G/H NAV SYS REPAIR PERS (GRP052,		11	77 29	ı	1	100	ı		22 78			56 44	1
	SPECIAL EQUIP TECH (GRP094,		1 %	14 86		1	98	14	ì	14 7.1	15		15 14 57	7

NOTE: Columns may not add to 100 percent due to "no response" or rounding

TABLE 5 (CONTINUED)

A SERVICE STATES OF THE SECRETARY OF THE

GEOLOGIA BELCCICLOR DENESES

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

GENERAL ENROUTE IN-SH MADAR MADAR MADAR MADAR SYSTEMS SYSTEMS SYSTEMS SYSTER REPAIR REPAIR REPAIR REPAIR CLUSTER PERS PERS PERS (GRP054, (GRP220, (GRP111, (GRP24) N=147) N=6) N=8)	12 12 17 19 20 17 68 67 66 1 1 -	TALENTS: 25 27 33 75 73 67	56 60 50 43 40 50 1	2 - 33 40 42 17 57 58 50 1
HOW DO YOU FIND YOUR JOB:	DULL SO-SO INTERESTING OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING: VERY LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY OTHER	DO YOU PLAN TO REENLIST: NO, WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES OTHER

Columns may not add to 100 percent due to "no response" or rounding NOTE:

THE PROPERTY OF THE PROPERTY O

TABLE 5 (CONTINUED)

222) Pasasa Pasasa aranga aranga manan ananan ananan ananan masan masan kanan masan masan (222)

JOB SATISFACTION INFORMATION FOR 328X4 CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT RESPONDING)

ADMIN & SUPVY JOB TYPES	ADMIN & SECTION FLTL SUPVY CHIEFS & COURSE MADAR OJT CLUSTER SUPVS SUPVS MANAGERS (GRP018, (GRP205, (GRP152, (GRP118, (GRP085, N=105) N=6) N=8) N=7) N=5)		8 5 0 29 20	13 8 0 - 40	77 87 100 71	2	IZE YOUR TALENTS:		73 82 88 57		IZE YOUR TRAINING:	38 30 25	61 70 75 57	1		20 25 25 29		00 2 5	
		HOW DO YOU FIND YOUR JOB:	DULL	80-80	INTERESTING	OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS	VERY LITTLE OR NOT AT ALL	FAIRLY WELL TO PERFECTLY	OTHER	HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING	TED TA TON ON TITETT	FAIRLY WELL TO PERFECTLY	OTHER	DO YOU PLAN TO REENLIST:	NO. WILL RETIRE	NO, OR PROBABLY NO	YES, OK PROBABLY YES OTHER	

Columns may not add to 100 percent due to "no response" or rounding NOTE:

TABLE 6

disables assessed appropriate consiste constant production and the consistence of the

# SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES

		I	NS COMPONE	INS COMPONENT REPAIR JOB TYPES	JOB TYPES	
				ASN-63	ASN-56	ASN-56
	INS	IN-SHOP	DIGITAL	NAV	SVSTEMS	CVCTEMC
	COMP	INS COMP	MODULAR	SYSTEMS	FLTL	IN-SHOP
	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR
	CLUSTER	PERS	PERS	PERS	PERS	PERS
	(GRP043,	(GRP189,	(GRP131,	(GRP251,	(GRP165,	(GRP072,
	N=155)	N=18)	N=75)	N=39)	N=58)	N=14)
NUMBER IN GROUP:	155	18	75	39	ď	71
PERCENTAGE OF TOTAL SAMPLE:	13%	2%	89	36	*	16
FERCENI IN CONUS:	<b>%</b> 79	78%	51%	80%	209	% % % %
DAFSC DISTRIBUTION:						
32834	35%	20%	24%	41%	707	50%
32874	41%	39%	%55	<b>%</b> 77	70 <b>7</b>	21%
4/37C	16%	%0	21%	10%	0%	29%
VIIIEN	8%	11%	11%	5%	20%	20
AVERAGE GRADE:	E-4	E-3	E-4	E-4	E-4	7-3
AVERAGE HONTHS IN CAREER FIELD:	43	20	52	36	31	2,5
AVENAGE HONTHS IN SERVICE:	52	29	62	42	36	61
PERCENT IN FIRST ENLISTMENT:	65%	76%	209	74.	80%	/.39/
AVERAGE NUMBER SUPERVISED:	4	, C	ניי ניי	2 4	<b>,</b>	<b>&amp;</b> 1 ~
	147	98	189	126	68	. 67
JUB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00):	17.1	14.1	20.1	16.2	10.9	11.2
MAJOR COMMAND ASSIGNED:						
SAC MAC	ı	,	•	•	•	1
	•	1	•	1	•	
PACAT	57%	78%	38%	77%	%07	86%
IISAFE	34 36 36 36 36 36 36 36 36 36 36 36 36 36	%	<b>%</b>	1	•	14%
	28 <b>%</b>	17%	36%	19%	<b>40%</b>	•
ATC	10%	1	18%	•		•
AFCC	}¢ •	•	<b>1%</b>	•	,	•
OTHER	ic.	1	%	2%	,	•
	ı	,	•	ı	20%	•

<sup>\*</sup> Less than 1 percent

TABLE 6 (CONTINUED)

CONTRACTOR CONTRACTOR

SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES

		INS	INS FLTL MAINT PERS JOB TYPES	PERS JOB TY	PES
	DIG MOD		), wox	C) 104	
	FI.TI.	SYSTEMS	ASN-40 NAV	ASN-03	
	MAINT	FLTL	COMPUTER	FLTL	AIRCRAFT
	PERS	REPAIR	REPAIR	REPAIR	SUPPORT
	CLUSTER	PERS	PERS	PERS	PERS
	(GRP039,	(GRP263,	(GRP200,	(GRP161,	(GRP050,
	N=161)	N=30)	N=12)	N=68)	N=42)
NUMBER IN GROUP:	161	30	12	89	42
PERCENTAGE OF TOTAL SAMPLE:	14%	3%	1%	<b>%</b> 9	74
PERCENT IN CONUS:	%69	83%	75%	78%	41%
DAFSC DISTRIBUTION:					
32834	20%	20%	8%	21%	24%
32854	52%	20%	50%	20%	<b>%</b> 79
32874	16%	17%	<b>%</b>	21%	56
OTHER	12%	13%	42%	8%	2
AVERAGE GRADE:	E-4	7-A	E	7-X	7-8
	45	45	20.00	74	14
AVERAGE MONTHS IN SERVICE:	52	67	21	55	47
PERCENT IN FIRST ENLISTMENT:	70%	76.9	100%	789	759
AVERAGE NUMBER SUPERVISED:	2 4	3 4	e c	2 4	ž -7
AVERAGE NUMBER OF TASKS PERFORMED:	62	84	94	70	35
JOB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00):	8.2	12.3	5.5	7.6	3.6
MAJOR COMMAND ASSIGNED:					
SAC	2%	•	•	81%	24
MAC	2%	•	1	58	12%
TAC	<b>%</b> 69	83%	83%	13%	34%
PACAF	ಕ್ಷ	<b>2</b> 4	•	•	74
USAFE	20%	13%	<b>%</b> 6	•	36%
AFSC	•	•	•	•	•
AIC	•	1	•	,	
Artic	, 3	•		•	•
OLINER	25	•	<b>4</b> 6	1	•

\* Less than 1 percent

TABLE 6 (CONTINUED)

SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES

		DOPPLER	SYSTEMS RE	DOPPLER SYSTEMS REPAIR PERS JOB TYPES	OB TYPES
	DOPPLER SYSTEMS REPAIR PERS CLUSTER (GRP044,	APN-218 DOPPLER NAV SYSTEMS REPAIR PERS (GRP120, N=86)	GENERAL DOPPLER SYSTEMS MAINT PERS (GRP268,	DOPPLER SYSTEMS SHIFT LEADERS & NCOICS (GRP215,	ASTRO INERTIAL NAV SYSTEMS REPAI PERS (GRP166,
NUMBER IN GROUP: PERCENTAGE OF TOTAL SAMPLE: PERCENT IN CONUS:	493 2% 80%	86 70% 88%	179 15% 71%	78 7% 86%	26 2% 92%
32834 32834 32874 0THER	318 488 1888 388	45% 43% 11%	35% 10%% 20%%	8% 39% 51% 2%	31% 54% 15%
	E-4 49 56	E-4 34 41	E-4 38 42	E-5 98 111	E-4 37 47
PERCENT IN FIRST ENLISTMENT: AVERAGE NUMBER SUPERVISED: AVERAGE NUMBER OF TASKS PERFORMED: JOB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00);	62% 4 134 14.7	78% 4 96 11.0	76% 3 153 16.9	28 <b>%</b> 5 206 20.0	65% 3 128
MAJOR COMMAND ASSIGNED: SAC MAC TAC PACAF USAFE AFSC ATC AFC OTHER	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	84 24 24 24 24 24 24 24 24 24 24 24 24 24	500 500 500 500 500 500 500 500 500 500	76% 10%%% 11% 11% 11% 11% 11% 11% 11% 11% 11%	100%

<sup>\*</sup> Less than 1 percent

TABLE 6 (CONTINUED)

SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES

		CAROUSEL JOB TYPES	OB TYPES		
	CAROUSEL IV-F	C-5 & C-141	AWACS	R-52G/H	
	NAV SYS	CAROUSEL	SYSTEMS	NAV SYS	SPECIAL
	REPAIR CLIISTER	IV-E REPAIR PERSONNET	REPAIR PERS	REPAIR PERS	EQUIP TRCH
	(GRP067.	(GRP082.	(GRP101.	(GRP052,	(GRP094.
	N=74)	N=51)	N=23)	N=9)	N=7)
NUMBER IN GROUP:	74	51	23	6	7
PERCENTAGE OF TOTAL SAMPLE:	<b>%</b> 9	<b>%</b> 7	2%	1%	<b>∞</b>
PERCENT IN CONUS:	<b>%68</b>	%96	27%	868	71%
DAFSC DISTRIBUTION:					
32834	36%	43%	22%	%19	29%
32854	<b>%5</b> 7	<b>727</b>	%77	22%	29%
32874	11%	10%	13%	<b>%</b> 0	42%
OTHER	8	2%	21%	11%	•
AVERAGE GRADE:	E-4	E-4	E-4	E-3	E-4
HONTHS	37	33	47	21	81
AVERAGE MONTHS IN SERVICE:	<i>L</i> 7	41	61	24	103
IN FIRS	%99	%69	61%	868	29%
AVERAGE NUMBER SUPERVISED:	2	2	9	0	7
RFORMED:	82	82	92	67	99
JOB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00):	10.0	10.7	9.8	5.0	22.9
MAJOR COMMAND ASSIGNED:					
SAC	•		ፉ ተ	78%	28% 
HAC	62%	<b>%</b> 06	•	•	14%
TAC	<b>78%</b>	•	91%	•	767
PACAF	٠	•	•	1	•
USAFE	•	•	•	ι	ı
Arsc	•	•	ſ	f	
ATC	•	•	, ,	ı	29%
AFCC	J .	•	1%	• ;	•
OTHER	3%	<b>5%</b>	ı	22%	ſ

\* Less than 1 percent

TABLE 6 (CONTINUED)

ACCOUNT ASSESSMENT PRODUCTION OF THE PRODUCTION

# SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES SELECTED BACKGROUND

		MADAR S	MADAR SYSTEMS JOB TYPES	TYPES
	MADAR	GENERAL MADAR	ENROUTE MADAR	IN-SHOP
	SYSTEMS	SYSTEMS	SYSTEMS	SYSTEMS
	REPAIR	REPAIR	REPAIR	REPAIR
	(GRP054	(GRP220	GRP111	(GRP262
	N=166)	N=147)	N=6)	N=8)
NUMBER IN GROUP:	166	147	9	<b>∞</b>
PERCENTAGE OF TOTAL SAMPLE:	14%	14%	*	નેલ
PERCENT IN CONUS:	87%	86%	17%	%0
DAFSC DISTRIBUTION:				
32834	32%	32%	%0	38%
32854	51%	53%	<b>%</b> 0	62%
32874	16%	14%	83%	ı
OTHER	1%	1%	17%	ı
GRADE:	E-4	E-4	E-6	E-4
MONTHS IN	<b>7</b> 7	41	138	34
AVERAGE MONTHS IN SERVICE:	20	95	159	37
	72%	74%	%0	75%
AVERAGE NUMBER SUPERVISED:	2	4	7	7
8	72	101	90	6/
JOB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00):	12.7	12.7	11.3	15.4
MAJOR COMMAND ASSIGNED:				
SAC	•	1	•	•
MAC	<b>%</b> 66	100%	<b>%</b> 78	100%
TAC	•	•	ı	•
PACAF	•	ı	•	ı
USAFE	*	ı	16%	•
AFSC	•	ı	ŧ	ı
AIC	•	•	•	•
AFCC	1	1		
OTHER	•	ı	ı	•

\* Less than 1 percent

TABLE 6 (CONTINUED)

SELECTED BACKGROUND INFORMATION FOR CLUSTERS AND INDEPENDENT JOB TYPES

			ADMIN & SU	ADMIN & SUPVY JOB TYPES	PES		
	ADMIN & SUPVY	SECTION CHIEFS &	COURSE	FLTL	0.17	QUALITY CONTROL	TRAINING
	CLUSTER	SUPVs	SUPVs	SUPVs	MANAGERS	INSP	PERS
	(GRP018,	(GRP205,	(GRP152,	(GRP118,	(GRP085,	(GRP047,	(GRP008,
	N=105)	N=40)	N=8)	N=7)	N=5)	N=20)	N=38)
NUMBER IN GROUP:	105	07	8	7	S	70	38
PERCENTAGE OF TOTAL SAMPLE:	<b>%</b> 6	3%	⊀	*	*	2%	3%
PERCENT IN CONUS:	<b>%89</b>	73%	15%	100%	<b>%</b> 0 <b>%</b>	70%	85%
DAFSC DISTRIBUTION:							-
32834	1%	%0	%0	%0	%0	%0	%0
32854	2%	5%	25%	14%	<b>%</b> 0	10%	767
32874	83%	<b>326</b>	63%	86%	100%	206	21%
OTHER	1%	%0	13%	1	•	1	ı
AVERAGE GRADE:	E-6	E-6	E-6	E-6	E-6	E-6	E-4
AVERAGE MONTHS IN CAREER FIELD:	157	175	157	159	157	162	82
AVERAGE MONTHS IN SERVICE:	179	202	182	180	189	183	95
PERCENT IN FIRST ENLISTMENT:	3%	%0	13%	%0	%0	%0	24%
AVERAGE NUMBER SUPERVISED:	9	7	6	9	9	4	12
AVERAGE NUMBER OF TASKS PERFORMED:	<b>9</b> 8	138	85	74	31	67	22
JOB DIFFICULTY INDEX (JDI) (AVG JDI = 13.00):	12.1	15.6	13.6	11.6	6.8	10.5	8.2
MAJOR COMMAND ASSIGNED:							
SAC	11%	18%	1	1	*	15%	1
MAC	29%	28%	12%	100%	*	30%	•
TAC	20%	25%	•	•	<b>%07</b>	20%	•
PACAF	5%	5%	•	ı	20%	5%	•
USAFE	17%	15%	13%	1	<b>40%</b>	10%	•
AFSC	<b>7</b>	<b>5%</b>	•	•	•	5%	1
ATC	<b>%</b>	5%	75%	•	ı	ı	100%
AFCC	•	2%	1	•	1	1	•
OTHER	<b>%</b> 9	•	•	•	ı	ι	

\* Less than 1 percent

### ANALYSIS OF DAFSC GROUPS

In addition to identification and analysis of the job variations of the 328X4 career ladder, the 3-, 5-, and 7-skill level groups within the sample were also examined. There is no 9-skill level or CEM level specifically designated for the 328X4 career field, as the six other 328XX ladders have a common 32899 and the entire 32XXX career field has a common 32000 CEM. The DAFSC analysis reveals similarities and differences between the groups in relation to tasks performed and the relative percentage of time spent on particular duties. These data may be used in determining the accuracy of career ladder documents, such as AFR 39-1 Specialty Description and the Specialty Training Standards (STS), as well as planning and establishing training needs.

The distribution of 328X4 skill levels across career ladder job groups is displayed in Table 6, while Table 7 displays the relative percent time spent on each duty across skill-level groups. The jobs performed by Avionic Inertial and Radar Navigation Systems personnel require similar amounts of time for the performance of tasks for most duty areas for 3- and 5-skill level personnel. Accordingly, the technical tasks performed vary only slightly between 3- and 5-skill levels (see Table 8); the only difference is that some 5-skill level personnel are performing some supervisory tasks, such as OJT and technical assistance. A greater shift in emphasis was observed, however, at the 7-skill level (see Table 9). Respondents holding DAFSC 32874 reported spending 56 percent of their relative job time performing Supervisory, Managerial, Training, and Administrative tasks (Duties A, B, C, D, and E). Further discussion of specific skill level groups is presented below.

<u>DAFSC 32834</u>. The 3-skill level personnel, representing 28 percent (315 members) of the 328X4 sample, performed an average of 98 tasks. These members spent 95 percent of their job time on technical duties, with a majority reporting they spent approximately one-half of their job time performing tasks related to maintenance management, avionic inertial and doppler radar navigation systems, off-equipment doppler radar navigation systems, and on-equipment inertial navigation systems. Examples of such tasks included:

locate parts or stock numbers in technical publications make entries on AFTO Forms 349 (Maintenance Data Collection Record) isolate malfunctions to associated aircraft equipment remove or install access panels remove or replace control and display units (CDU) remove or replace inertial navigation unit (INU) bench check doppler navigation computers bench check doppler sensor RT

Table 10 lists additional tasks performed by this group to illustrate the kinds of tasks performed by the majority of 3-skill level personnel.

DAFSC 32854. The 535 members (48 percent of the 328X4 sample) at the 5-skill level perform a slightly broader job than indicated by 3-skill level respondents, with 84 percent of their duty time devoted to technicallytasks. Table 11 presents examples of tasks performed by this Note that many of the tasks are the same as for the 3-skill level oriented tasks. group. The members of this skill-level group performed an average of 110 tasks and spent approximately one-third of their job time on functions related to performing maintenance management functions, avionic inertial and doppler radar navigation systems general maintenance functions, and maintenance on on-equipment inertial navigation systems functions, while the remainder of time was distributed throughout the other duties. Some 5-skill level personnel (presumably the more senior ones) take on supervisory and administrative functions (Duties A, B, C, and D). The tasks which clearly differentiate between 3- and 5- skill level are related to supervision (see Table 8). Note that even some 3-skill level personnel (10-15 percent) report they conduct OJT or demonstrate repair techniques. This may be a function of the level of experience in the career ladder; almost 50 percent are in their first enlistment.

DAFSC 32874. Seven-skill level personnel represented 24 percent (273 members) of the 328X4 survey sample. They performed an average of 131 tasks, with 96 of those tasks accounting for over 50 percent of their job time. Although some (44 percent) of their job time was spent on technical functions, supervisory, managerial, and administrative tasks are dominant for 7-skill level groups. Table 12 presents examples of representative tasks for this group which indicate the range of the job with 79 percent of the group preparing APRs, while 63 percent operated inertial and radar navigation equipment for check-out of associated avionic systems. Thus, the 7-skill level job is still a mix of technical tasks and supervisory duties.

Differences between 5- and 7-skill level personnel are reflected by the listing of tasks in Table 12. As would be expected, the major differences in tasks performed involve supervisory and management responsibilities. Note, however, that only about 80 percent of the 7-skill level personnel are supervising (i.e., prepare APRs, counsel subordinates, etc.). Thus, there must be about 20 percent of the 7-skill level personnel who are in purely technical jobs (or in related support jobs such as quality control or training).

# Summary

Career ladder progression is well defined. Overall, the responsibilities of the 3- and 5- skill level incumbents are similar. Both groups spend the vast majority of their job time performing technical tasks. In comparison, 7-skill level personnel perform a mix of technical and supervisory, managerial, training, or administrative tasks.

TABLE 7

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY 328X4 DAFSC GROUPS

<u>DU</u>	TIES	DAFSC 32834 (N=315)	DAFSC 32854 (N=535)	DAFSC 32874 (N=273)
Α	ORGANIZING AND PLANNING	1	2	8
В	DIRECTING AND IMPLEMENTING	1	3	13
С	INSPECTING AND EVALUATING	2	4	13
D	TRAINING	1	7	11
E	PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS	9	10	11
F	PERFORMING AIRCRAFT GENERAL SUPPORT FUNCTIONS	4	5	4
G	PERFORMING AVIONIC INERTIAL AND DOPPLER RADAR NAVIGATIONAL			
	SYSTEM GENERAL MAINTENANCE FUNCTIONS	15	13	8
H	MAINTAINING ON-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	7	6	4
Ι	MAINTAINING OFF-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS		7	4
J	MAINTAINING ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS	18	15	8
K	MAINTAINING OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS			
	EQUIPMENT	7	5	2
L	MAINTAINING ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM			
	(DMAS)	2	2	1
M	MAINTAINING OFF-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM			
	(DMAS)	1	1	1
N	MAINTAINING ON-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL			
	COMPUTERS (SUCH AS ASN-7/7/7A OR ASN-35 & 46)	3	3	2
0	MAINTAINING OFF-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL			
	COMPUTERS	3	3	1
P	MAINTAINING ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS			
	(WRCS)	2	2	1
Q	MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS			
	(WRCS)	2	1	1
R	MAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS	*	*	*
S	MAINTAINING OFF-EQUIPMENT OMEGA NAVIGATION SYSTEMS	*	*	*
T	MAINTAINING ON-EQUIPMENT MALFUNCTION ANALYSIS DETECTION			
	AND RECORDING (MADAR) SYSTEMS	7	6	4
U	MAINTAINING OFF-EQUIPMENT MALFUNCTION ANALYSIS DETECTION			
	AND RECORDING (MADAR) SYSTEMS	3	3	<del>አ</del>
V	MAINTAINING ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM			
	(FSAS)	*	0	*
W	MAINTAINING CATEGORY II/PECULIAR (PEC) TEST EQUIPMENT			
	AND MOCK-UPS	3	2	3

<sup>\*</sup> Denotes less than 1 percent

TABLE 8

TASKS WHICH BEST DIFFERENTIATE BETWEEN 3- AND 5-SKILL LEVEL PERSONNEL (PERCENT MEMBERS RESPONDING)

TASKS		DAFSC 32834 (N=315)	DAFSC 32854 (N=535)	DIFFERENCE
B54	SUPERVISE APPRENTICE AVIONIC INERTIAL AND RADAR			
	NAVIGATION SYSTEMS SPECIALISTS (AFSC 32834)	13	50	37
D102		10	43	33
C91				
	PROBLEMS ENCOUNTERED BY SUBORDINATES	12	41	29
D116	· · · · · · · · · · · · · · · · · · ·			
	REPAIR TECHNIQUES	15	43	28
D107		30	57	27
D108	DEMONSTRATE PROCEDURES FOR LOCATING TECHNICAL			
	INFORMATION	21	47	26
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-			
	RELATED PROBLEMS	4	29	25
D119				
	AS AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	7	31	24
D106	COUNSEL TRAINEES ON TRAINING PROGRESS	4	27	23
D113	EVALUATE PROGRESS OF TRAINEES	4	27	23
C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	3	25	22
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION			
	SYSTEMS SPECIALISTS (AFSC 32854)	3	25	22
F178	LAUNCH OR RECOVER AIRCRAFT	32	53	21
E137	MAINTAIN AF FORMS 2430 (SPECIALISTS DISPATCH			
	CONTROL LOG)	23	43	20
A13		11	30	19
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	8	26	18
D101	CONDUCT JOB PROFICIENCY TRAINING	3	21	18
A3	COORDINATE WORK WITH OTHER SECTIONS	16	33	17
B34	DIRECT SHOP MAINTENANCE ACTIVITIES	5	22	16

TABLE 9

TASKS WHICH BEST DIFFERENTIATE BETWEEN 5- AND 7-SKILL LEVEL PERSONNEL (PERCENT MEMBERS RESPONDING)

TASKS		DAFSC 32834 (N=535)	DAFSC 32854 (N=273)	DIFFERENCE
C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	25	79	54
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED PROBLEMS	29	78	49
B50	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	18	65	47
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION			
B49	SYSTEMS SPECIALISTS (AFSC 32854) INITIATE PUNITIVE ACTIONS OR RECOGNITION FOR	25	71	46
	COMMENDABLE PERFORMANCES	13	59	46
A23	SCHEDULE WORK ASSIGNMENTS	18	63	45
B25	BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES			
	OR PROCEDURES	14	59	45
D119	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS, SUCH			
	AS AF FORMS 623 (ON-THE-JOB TRAINING RECORDS)	31	74	43
B37	DRAFT CORRESPONDENCE	6	49	43
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	26	69	43
A18	PREPARE DUTY ROSTERS	9	52	43
A22	SCHEDULE LEAVES, PASSES OR TEMPORARY DUTY (TDY)			
	TRIPS	5	45	40
A3	COORDINATE WORK WITH OTHER SECTIONS	33	72	39
<b>A</b> 1	ASSIGN PERSONNEL TO DUTY POSITIONS	12	51	39
C78	INDORSE AIRMAN PERFORMANCE REPORTS	7	45	38
B56	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION			
	SYSTEMS TECHNICIANS (AFSC 32874)	3	40	37
B27	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	8	45	37
B48	INITIATE CORRECTIVE ACTIONS BASED ON MAINTENANCE			
	INSPECTIONS OR REPORTS	20	55	35
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	3	38	35

TABLE 10

EXAMPLES OF REPRESENTATIVE TASKS PERFORMED BY DAFSC 32834 PERSONNEL

TASKS		MEMBERS PERFORMING (N=315)
G212	SECURE OR SAFETY LRU IN AIRCRAFT	86
G210	SECURE OR SAFETY LRU IN AIRCRAFT REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS OR MOCKUPS, SUCH AS KNOBS OR LAMPS	85
E149	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	84
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
0000	NAVIGATIONAL SYSTEMS	81
G200	OPERATE INERTIAL AND RADAR NAVAGATIONAL EQUIPMENT FOR	77
1010	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS OPERATIONALLY CHECK INERTIAL SYSTEMS ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT ISOLATE MALFUNCTIONS TO RELAYS ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	77 74
7313	UPERALIUNALLI CHECK INEKITAL SISTEMS	74 72
G198	ISOLATE MALFUNCTIONS TO DELAYO	68
C100	TOOLAGE MALEUNCTIONS TO RELAIS	08
0133	REPLACEABLE UNITS (LRU)	65
C212	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	
	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	
T203	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	05
J27J	CONTROL INDICATOR UNITS (CIU)	62
F164	TAG OR LABEL EQUIPMENT	62
	REMOVE OR REPLACE AVIONIC INERTIAL OR RADAR NAVIGATION	<b>02</b>
	SYSTEM CONNECTORS	62
J317	REMOVE OR REPLACE RATTERY UNITS (RII)	57
G323	REMOVE OR REPLACE BATTERY UNITS (BU) REMOVE OR REPLACE INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	57
1294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	57
F181	OPERATE POWER AGE	55
E160		
	BREAKDOWNS (IPB)	55
	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER AVIONIC	
	SYSTEMS	50
G201	PERFORM ON-EQUIPMENT QUALITY VERIFICATIONS	48
	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	45

TABLE 11

EXAMPLES OF REPRESENTATIVE TASKS PERFORMED BY DAFSC 32854 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=535)
E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	85
E149	· · · · · · · · · · · · · · · · · · ·	•
	TAG)	82
G212		79
G210		7.0
	MOCKUPS, SUCH AS KNOBS OR LAMPS	78 76
	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	76 76
	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	76
G200	· · · · · · · · · · · · · · · · · · ·	35
7010	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	75 70
	OPERATIONALLY CHECK INERTIAL SYSTEMS	70
	ISOLATE MALFUNCTIONS TO RELAYS	70
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	60
001/	NAVIGATIONAL SYSTEMS	69
	SPLICE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	67
6199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	64
0206	REPLACEABLE UNITS (LRU) REMOVE OR INSTALL ACCESS PANELS	62
		62 62
	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	
	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	61
F172		60
P161	SYSTEMS TAC OD LADEL FOULDWENT	58
E160	TAG OR LABEL EQUIPMENT RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	36
FIOU		58
D107	BREAKDOWNS (IPB) DEMONSTRATE OPERATION OF EQUIPMENT	56 57
	REMOVE OR REPLACE INU	56
	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	30
3293	CONTROL INDICATOR UNITS (CIU)	56
T220	DEMOVE OF DEDIACE CONTROL AND DIGHTAY INTITE (CDII)	54
1320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU) ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	54
	LAUNCH OR RECOVER AIRCRAFT	53
	OPERATE POWER AGE	53 51
G201		51
		31
B54		50
D100	SYSTEMS SPECIALISTS (AFSC 32834) DEMONSTRATE PROCEDURES FOR LOCATING TECHNICAL INFORMATION	30 47
D108	INSTRUCT PERSONNEL ON EQUIPMENT MAINTENANCE OR REPAIR	4/
D116	TROUNTOIRE	43

TABLE 12 EXAMPLES OF REPRESENTATIVE TASKS PERFORMED BY DAFSC 32874 PERSONNEL

<b>3.</b> 5	· Kalkand Landa Karl	ŶĸĬĸĬĸŶĬĸĬĸĬĸĬĸĬĸĬĸĿĬŶĬĬŶĬĬĸĬĬĸĬĬĸĬĬĸĬĬĸĬĸĬĸĬĸ	
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<u>.</u>		TANTE 10	
è		TABLE 12	
ĺ		EXAMPLES OF REPRESENTATIVE TASKS PERFORMED BY DAFSC 32874 PER	RSONNEL
₹			
			DDD CDVT
Ş			PERCENT MEMBERS
			PERFORMING
Ì	TASKS		(N=273)
	TABLE		
, •	C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	79
1	B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	_	PROBLEMS	78
)	E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	77
ļ	001	RECORD) PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	11
	C91	ENCOUNTERED BY SUBORDINATES	74
<u> </u>	D119		74
į	DIII	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	74
! !	E149		
		TAG)	74
•	A3	COORDINATE WORK WITH OTHER SECTIONS	72
•	B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	69
i J	E160		
		BREAKDOWNS (IPB)	67
	B50	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	65
	C81	SUBORDINATES INSPECT CONSOLIDATED TOOL KITS (CTK)	64
		CONDUCT OJT	64
		DEMONSTRATE OPERATION OF EQUIPMENT	63
	A13	ESTABLISH WORK PRIORITIES	63
	A23		63
		OPERATE INERTIAL AND RADAR NAVAGATIONAL EQUIPMENT FOR	
		CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	63
 	D108		62
	B54	SUPERVISE APPRENTICE AVIONIC INERTIAL AND RADAR NAVIGATION	
	B:44	SYSTEMS SPECIALISTS (AFSC 32834)	62
	D106		61 60
	D113 B25	EVALUATE PROGRESS OF TRAINEES BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES OR	δU
	D23	PROCEDURES	59
•	D116		37
•	2.10	TECHNIQUES	55
••	J313	•	55
	B48	INITIATE CORRECTIVE ACTIONS BASED ON MAINTENANCE	
		INSPECTIONS OR REPORTS	55
· ·	B29		53
t •	C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR	50
	201	APPEARANCE	52 51
i	B34		51 50
	C66	EVALUATE COMPLIANCE WITH WORK STANDARDS	30

### COMPARISON OF SURVEY DATA TO AFR 39-1 SPECIALTY DESCRIPTIONS

Data on 3-, 5-, and 7-skill levels tasks were compared to the AFR 39-1 Specialty Descriptions for Avionic Inertial and Radar Navigation Systems Specialists (AFSC 32834/54) and Avionic Inertial and Radar Navigation Systems Technicians (AFSC 32874), dated 1 January 1982. These descriptions provide a broad overview of the duties and tasks performed by each skill level within the career ladder.

Based on the previously presented DAFSC analysis, the 3-, 5-, and 7-skill level specialty descriptions appear complete and accurately reflect the overall duties and responsibilities of these personnel. The 7-skill level description not only reflected supervisory responsibilities, but the maintenance duties, as well, which is appropriate.

# ANALYSIS OF EXPERIENCE (TAFMS) GROUPS

An analysis was also made comparing tasks and job differences among individuals grouped by time in service (TAFMS) to determine how personnel utilization patterns change as experience increases. Table 13 provides a list of the relative amount of time spent on duties by members of each TAFMS group. As the level of experience increased, respondents spent slightly greater percentages of their job time performing supervisory and management functions. As indicated by the data in the table, there is a slight increase through the 193-240 months TAFMS period. Notably, the 241+ TAFMS group performed slightly less functions related to organizing and planning and inspecting and evaluating, while they performed slightly more functions related to directing and implementing, training, and maintenance management than the 193-240 group. The major emphasis of this job was technical; therefore, a majority of the job time of most enlistment groups, except the 193-240 and 241+, was largely devoted to technical functions.

# First-Enlistment Personnel

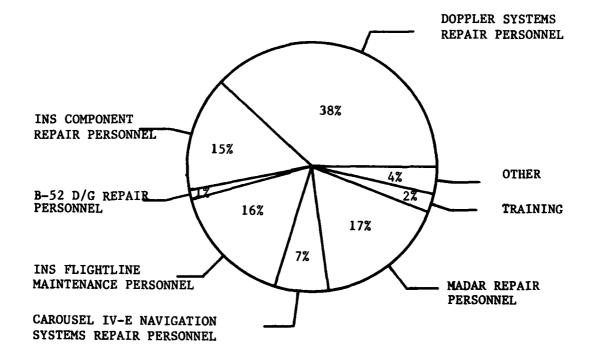
Figure 2 presents a distribution of first-term 328X0 respondents across job groups identified in the Specialty Jobs Section of this report. As illustrated in Figure 2, first-enlistment personnel participated in a full range of avionic inertial and radar navigation systems activities and were members of most of the technically-oriented job. Enroute MADAR Repair Personnel, Sections Chiefs and Supervisors, Flightline Supervisors, OJT Managers, and Quality Control Inspectors are the only groups having no first-enlistment representatives. Table 14 provides examples of some of the tasks commonly performed by airmen with 1-48 months TAFMS. The common tasks performed by first-enlistment personnel are administrative or general maintenance actions, such as AFTO Forms and remove or replace relays. The more specific technical tasks generally are performed by about 60 percent or less of all first-enlistment personnel. Systems-specific tasks are likely to be performed by only a third of the first-enlistment group or less, indicating that the jobs are fairly specialized by system. Of the 689 individuals making up the first-enlistment group, 38 percent fell into 1 specialty group, Doppler Systems Repair Personnel, while the remaining fell into variations of the other system-specific job groups.

Since the first job (1-24 months TAFMS) and first enlistment (1-48 months TAFMS) are the target population for initial skills training, this job diversity may be a problem. It may be very difficult to balance the need for system-specific training in a common 328X4 course. This will be the primary question for the ANALYSIS OF TRAINING in the next section of this report.

Before leaving the experience (TAFMS) groups, one other type of data should be examined. The job attitudes of incumbents, grouped into TAFMS categories, may provide insight into the status of this career field versus other specialties.

FIGURE 2

# DISTRIBUTION OF FIRST-ENLISTMENT PERSONNEL ACROSS JOB SPECIALTY GROUPS (PERCENT MEMBERS RESPONDING, N=689)



ASSESSED ASS

TABLE 13

RELATIVE PERCENT TIME SPENT ON DUTIES BY TAFMS GROUPS

2	DUTIES	1-48 (N=689)	49-96 (N=179)	97-144 (N=138)	145-192 (N=866)	193-240 (N=79)	241+ (N=22)
•	ABCANTZTWC AND DEADNING	•					,
C 1	ONCENT TO THE THEORY	<b>-</b> ,	<b>v</b> )	<b>o</b> .	×	۲ <u>.</u>	13
<b>2</b>	DIRECTING AND IMPLEMENTING	¢	ın v	o (	15	16	19
، د	INSTELLING AND EVALUATING	7	٥	×	7.7	19	8
0	TRAINING	ო	10	12	12	15	10
( <del>=</del> )	PERFORMING MAINTENANCE MANAGEMENT FUNCTIONS	6	12	11	13	10	14
ſæ,	PERFORMING AIRCRAFT GENERAL SUPPORT FUNCTIONS	2	4	Ŋ	5	က	ო
IJ	PERTORMING AVIONIC INERTIAL AND DOPPLER RADER NAVIGATIONAL						
	SYSTEM GENERAL MAINTENANCE FUNCTIONS	15	11	0	ø	7	4
=	MAINTAINING ON-EQUIPMENT DOPLER RADAR NAVIGATIONAL SYSTEMS	9	9	4	4	ო	7
H	MAINTAINING OFF-EQUIPMENT DOPPLER RADAR NAVIGATIONAL SYSTEMS	∞	9	2	4	ო	7
<b>'</b>	MAINTAINING ON-EQUIPMENT INERTIAL NAVIGATION SYSTEMS MAINTAINING OFF-EQUIPMENT/INERTIAL NAVIGATIONAL SYSTEMS	18	13	11	<b>∞</b>	Ŋ	īΩ
	EQUIPMENT	9	'n	7	7	7	2
H	MAINTAINING ON-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM	ო	. m	7	*	-	-
X	MAINTAINING OFF-EQUIPMENT DIGITAL MODULAR AVIONIC SYSTEM (DMAS)	-1	H	-	*	ŗ	-
Z							
		ო	7	7	7	7	7
0	MAINTAINING OFF-EQUIPMENT GENERAL PURPOSE OR NAVIGATIONAL						
(		က	က	7	-1	-1	*
۵,	MAINTAINING ON-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS						
,		7	<b>,</b>	7	-	<b>-</b> {<	<b>-</b> }<
0	MAINTAINING OFF-EQUIPMENT WEAPONS RELEASE COMPUTER SYSTEMS	,	,	,	•	•	•
•		<b></b>	<b></b>	<b>~</b> ·	je •	<b>*</b> •	7 ·
×	HAINTAINING ON-EQUIPMENT OMEGA NAVIGATION SYSTEMS	<b>-}&lt;</b>	ķ	*	ł¢	k	ķ¢
S		*	<b>-</b> }<	*	*	•	*
<b>-</b>	•						
	(MADAR) SYSTEMS	٢	4	7	က	-	7
=	MAINTAINING OFF-EQUIPMENT MALFUNCTION ANALYSIS DETECTION AND						
	RECORDING (MADAR) SYSTEMS	ო		*	*	•	-
> 3	MAINTAINING ON-EQUIPMENT FUEL SAVINGS ADVISORY SYSTEM (FSAS) MAINTAINING CATEGORY 11/PECHIAP (PEC) TEST FOHIDMENT AND	*	<b>⊹</b> ¢	*	•	•	<b>⊰</b> <
:		က	က	က	7	7	4

\* Less than 1 percent

# TABLE 14

# REPRESENTATIVE TASKS PERFORMED BY 328X4 FIRST-ENLISTMENT (1-48 MOS) TAFMS GROUPS

TASKS		PERCENT MEMBERS PERFORMING (N=689)
E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	86
G212		86
E149	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	84
G210	MOCKUPS, SUCH AS KNOBS OR LAMPS	84
G200	OPERATE INERTIAL AND RADAR NAVAGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	79
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	78
G195 G202	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	77
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	76
G197	ISOLATE MALFUNCTIONS TO RELAYS	71
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	
	REPLACEABLE UNITS (LRU)	69
G214	SPLICE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	
G211	REMOVE OR REPLACE RELAYS	67
G206	REMOVE OR INSTALL ACCESS PANELS	66
G208	REMOVE OR REPLACE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM CONNECTORS	65
G213	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	64
J298	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	64
E164	TAG OR LABEL EQUIPMENT	63
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	61
	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	60
J329	REMOVE OR REPLACE INU	59
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR CONTROL INDICATOR UNITS (CIU)	59
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER AVIONIC SYSTEMS	58
T220		58
1222	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU) REMOVE OR REPLACE INERTIAL COMPUTERS	57
F181		56
	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	56
0015	BREAKDOWNS (IFB)	
	TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	54 53
J317	REMOVE OR REPLACE BATTERY UNITS (BU)	53

# Job Satisfaction

The main purpose of this section is to examine how job satisfaction indicators change with experience in the career ladder. Table 15 lists the job satisfaction summarized by experience groups, as well as for a comparative group made up of individuals in other recently surveyed similar ladders.

As illustrated in Table 15, slightly more 328X4 first-enlistment and second-enlistment (49-96) personnel find their jobs interesting than the first-enlistment and second-enlistment comparative sample group, while slightly less of the career group (97+) find theirs interesting than the comparative sample. The small differences here do not appear at all significant.

With progression in the career field, indicators of adequate use of talents are equal or slight greater for the first two enlistment groups and slightly greater for the comparative sample group. Reenlistment intentions steadily increased through all enlistment periods and are always greater when compared to similar comparative sample groups.

There are, however, substantial differences between this survey and others in the proportion of incumbents who feel their training is used effectively in their job and this trend is systematic for all of the TAFMS groups. Fewer 328X4 personnel feel their training is being used, which that current training (or its use) is a problem area. Thus, 328X4 training needs to be examined closely to define the cause of this difference in attitudes toward training.

TABLE 15

COMPARISON OF JOB SATISFACTION INDICATORS BY TAFMS GROUPS (PERCENT MEMBERS RESPONDING)\* 

	1-48 H	1-48 MONTHS TAFMS	96-67	49-96 MONTHS TAFMS	97+ MC	97+ MONTHS TAFMS
EXPRESSED JOB INTEREST:	328X0	COMPARATIVE SAMPLE	328X0	COMPARATIVE SAMPLE	328X0	COMPARATIVE
DULL SO-SO INTERESTING NO RESPONSE	9 14 76 1	10 18 70 2	8 17 74 1	11 15 72 2	10 14 75	7 12 79 2
PERCEIVED UTILIZATION OF TALENTS:						
NOT AT ALL TO VERY LITTLE FAIRLY WELL TO PERFECTLY NO RESPONSE	21 79 0	20 79 1	22 77 0	18 81 1	22 77	15 84 1
PERCEIVED UTILIZATION OF TRAINING:						
NOT AT ALL TO VERY LITTLE FAIRLY WELL TO PERFECTLY NO RESPONSE	32 68 0	19 80 1	31 69 0	22 77 1	31 68 1	18 81 1
REENLISTMENT INTENTIONS:						
I WILL RETIRE NO, OR PROBABLY NO YES, OR PROBABLY YES NO RESPONSE	0 41 59 0	0 46 53 1	4 21 72 3	0 28 70 1	16 9 74 1	19 7 72 1

<sup>\*</sup> Comparative sample taken from mission equipment maintenance specialty reported in 1983 (N=8,361). Includes AFSCs 305X4, 324X0, 328X5, 423X1, 423X5, and 464X0

## ANALYSIS OF TRAINING

One of the major objectives of this project was to collect occupational data for use in reviewing initial skill training programs. The target population for such training programs are the 328X4 personnel who are in their first enlistment. A number of 7-skill level technicians rated the job inventory tasks in terms of which task should receive emphasis in structured training for first-term 328X4 personnel. Unfortunately, raters did not agree to an acceptable degree on which tasks should be trained (see discussion of Task Factor Administration in the SURVEY METHODOLOGY section). This disparity appeared to be due to the variation in functions performed (specialization) and lack of good agreement as to the need for training on certain tasks.

A second group of technicians provided task difficulty (TD) ratings (estimated of relative difficulty in learning of tasks). These raters had good agreement and the TD ratings are used in this analysis.

The lack of good consensus in TE ratings limits analysis of training documents and programs and may reflect the diverse systems maintained by members of the specialty. Consequently, this section will focus on identifying the tasks performed by first-enlistment personnel and task difficulty ratings to analyze the STS and POI.

Technical school personnel for the 328X4 career ladder at Keesler Technical Training Center, Keesler AFB, Mississippi, matched inventory tasks to appropriate sections of the STS and to the POI for Course 3ABR32834. The comparisons of data to training documents are based on this matching. Factors which can be used to evaluate training are the percent of first-enlistment members performing tasks, along with the task difficulty ratings (as discussed in the Task Factor Administration section). These factors were used to examine the 328X4 STS and POI for Course 3ABR32834. A complete computer listing displaying the percent members performing and task difficulty ratings for each task statement, along with POI and STS matchings, was forwarded to the technical school for their use in any further review of training documents.

# Task Difficulty

The relative difficulty of each task in the inventory was assessed through ratings of 63 experienced Avionic Inertial and Radar Navigation Systems NCOs. These tasks were processed to produce an ordered listing of all tasks in terms of their relative difficulty and were standardized to have an average difficulty of 5.0, with a standard diviation equal to 1.

Table 16 lists examples of those tasks rated the highest by 328X4 task difficulty raters. These tasks are related to a variety of Avionic Inertial and Radar Navigation Systems functions and involves maintaining Category II peculiar (PEC) test equipment and mockup, performing INS and doppler systems general maintenance functions, maintaining on-equipment DMAS on

INS systems, inspecting and evaluating and maintaining on-equipment MADAR systems. Note that only two of the most difficult tasks are performed by more than 50 percent of first-enlistment 328X4 personnel, and these are troubleshooting (isolate malfunctions) tasks. The other difficult tasks are performed only by small percentages, which again reflects the diversity of first-enlistment jobs in the career field. Some of the tasks rated high in TD are supervisory and management tasks, such as evaluate budgets or financial requirements and write staff studies, surveys or special reports, which are, of course, not tasks for first-enlistment training.

# Specialty Training Standard

The 328X4 STS dated December 1980 was compared with occupational data. Each paragraph was reviewed using task difficulty and percent members performing information. Given the diversity of first-enlistment jobs and the lack of agreement among TE raters, it is important to be able to see which job groups are performing the tasks matched to each STS area. Thus, the computer products used in this analysis (and provided to the school) also included percent performing for the six major first-enlistment jobs.

Generally, all broad categories of the STS had items referenced to them. Due to the diverse nature of the functions of the job groups identified in this field, many of the tasks matched to the STS were performed by small percentages of first-enlistment personnel in most of the job groups. Some of the subdivisions to the STS paragraphs had no tasks matched to them, while in other instances, tasks were matched only to the major paragraph headings. Some of these items are coded as performance objectives but have no tasks matched to them. These include items such as STS subparagraphs 10B(4) and 12B(4) Identify Defective Test Equipment (2B, 3C, 4C), which perhaps should be coded as a knowledge item (B, C, C), rather than as a performance item. Such areas should be reviewed to ascertain if codes should be changes.

There are some areas where the proficiency codes are dashed, yet sizeable percentages of first-enlistment personnel perform the functions. Some of these cannot be trained in the school because of equipment limitations (such as "operate other aircraft systems as necessary to check applicable equipment"). Paragraph 9B(7) "Use Common Test Equipment such as Time Domain Reflectometers" is coded 2B/-, 3C, and 4C, with an average of 71-86 percent of first-term groups performing (except Administrative Personnel). The dashed coding at the 3-skill level indicates that specific paragraph is not taught at the technical school; this is a situation requiring review in light of the high pecentages of first-enlistment personnel performing.

Finally, survey data generally supported the present STS. Table 17, however, displays technical tasks not matched to the STS which are performed by major job groups. Many of these unmatched tasks involve specialized programs, such as MADAR and are being performed mostly by members of relative small job types, such as the MADAR group, which consists of 166 personnel or about 14 percent of the career field. Although performed by few 328X4 first-enlistment personnel overall, their performance by members of an identified job type suggests they could justifiably be added to the STS (at least in some generic sense).

TABLE 16

EXAMPLE OF TASKS RATED HIGHEST IN TASK DIFFICULTY

		FIRST	ENLISTMENT
TASKS		TASK DIFF	PERCENT MEMBERS PERFORMING
W629	CALIBRATE SYSTEM PERFORMANCE TEST SETS (SPTS) ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT ISOLATE MALFUNCTIONS TO SPTS COMPONENTS	8.06	5
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	7.44	78
W712	ISOLATE MALFUNCTIONS TO SPTS COMPONENTS	7.32	5
W768	REPAIR SPTS SRU OR COMPONENTS	7.23	3
L397	BORESIGHT IMU MOUNTS	7.19	
D128	WRITE OR REVISE CAREER DEVELOPMENT COURSES (CDC)	7.05	*
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE REPLACEABLE		
	UNITS (LRU)	7.02	69
C65		7.01	1
C67	EVALUATE ENGINEERING CHANGE PROPOSALS	7.00	2
C97	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, OTHER THAN		
	TRAINING REPORTS	6.98	1
H216	BORESIGHT DOPPLER SENSOR ANTENNAS OR MOUNTS	6.97	7
	ALIGN INERTIAL MEASUREMENT UNIT (IMU) MOUNTS	6.93	
B500	ISOLATE MALFUNCTIONS TO WRCS PYLON WIRING	6.93	6
W703	ISOLATE MALFUNCTIONS TO MICROWAVE TEST FIXTURE SRU COMPONENTS	6.86	1
W689	ISOLATE MALFUNCTIONS TO ASM-445 PROJECTED MAP DISPLAY TEST		
	SET SRU COMPONENTS	6.74	*
W683	ISOLATE MALFUNCTIONS TO ASM-217 ELECTRONIC CIRCUIT PLUG-IN		
	UNIT TEST SET SRU COMPONENTS	6.73	1
W623	CALIBRATE ASN-225 COMPASS TEST SETS	6.72	
	ISOLATE MALFUNCTIONS TO INERTIAL JUNCTION BOX COMPONENTS,		
	SUCH AS RESISTORS, DIODES, RELAYS, OR CAPACITORS	6.71	32
W761	REPAIR MICROWAVE TEST FIXTURE SRU COMPONENTS	6.65	
B36			
G207	REMOVE OR REPLACE AIRCRAFT WIRING HARNESSES	6.60	23
W688			
	SET SRU	6.60	*
T571	TEACH MADAR TROUBLESHOOTING TECHNIQUES	6.59	
	ISOLATE MALFUNCTIONS TO ASM-217 ELECTRONIC CIRCUIT PLUG-IN UNIT TEST SET SRU	6.56	1

<sup>\*</sup> Indicates less than .5 percent members performing

Task difficulty mean = 5.0 Standard deviation = 1.0

TABLE 17

TASKS NOT REFERENCED TO STS (PERCENT MEMBERS PERFORMING)

TASKS		TASK	INS COM	INS FLT	DOPPLER	CAR IV-E	MADAR	ADM SUP
L397	BORESIGHT IMU MOUNTS	7.19	∞	-	*	0	0	0
T571	TEACH MADAR TROUBLESHOOTING TECHNIQUES	6.59	0	0	7	0	78	6
<b>090</b> 3	ISOLATE MALFUNCTIONS TO MADAR ODRU SRU	6.52	-	0	0	0	43	1
<b>0</b> 299	ISOLATE MALFUNCTIONS	6.26	г	0	0	0	43	-
0090	ISOLATE MALFUNCTIONS TO MADAR DRU SRU	6.23	7	0	*	0	43	1
U597	ISOLATE MALFUNCTIONS TO MADAR CMA SRU	6.17	-	0	0	0	42	_
U583	ALIGN MADAR ODRU	6.13	-	0	0	0	34	~
U577	ADJUST MADAR ODRU	9.00	0	0	*	0	77	-
U579	ALIGN MADAR CSU	5.90	0	0	0	0	33	
<b>US80</b>	ALIGN MADAR DRU	5.84	0	0	*	0	0+0	
909n	ISOLATE MALFUNCTIONS TO MADAR SAR SRU	5.83	1	0	0	0	43	-
V609	ISOLATE FSAS MALFUNCTIONS TO ASSOCIATED INTERFACE							
	SYSTEMS OR EQUIPMENT	5.78	1	0	0	0	-	0
V610	H							
	CONTROL UNITS (DICU)	5.78	1	0	0	0	7	0
V611	ISOLATE MALFUNCTIONS TO FSAS FUEL SAVINGS							
	COMPUTERS (FSC)	5.78	-	0	0	0		0
V612	Η							
	SUCH AS RESISTORS, DIODES, OR RELAYS	5.78	_	0	0	0	_	0
V613	Ι							
	DISPLAY UNITS (CDU)	5.78	0	0	*	0	_	0
1091	ISOLATE MALFUNCTIONS	5.76	1	0	<b>-</b> ;c	0	07	_
<b>U602</b>	ISOLATE MALFUNCTIONS	5.76	1	0	0	0	41	-
<b>0598</b>	ISOLATE MALFUNCTIONS TO MADAR COMPUTER SRU	5.75	1	0	0	0	42	-
US 75	ADJUST MADAR MDR	5.75	0	0	*	0	07	-
0581	ALIGN MADAR MDR	5.75	1	0	0	0	33	prod
<b>U574</b>	ADJUST MADAR DRU	5.73	0	0	*	0	94	1
N604		5.68	1	0	0	0	42	7
<b>0576</b>	ADJUST MADAR MAUX	5.65	0	0	0	0	37	1

TABLE 17 (CONTINUED)

TASKS NOT REFERENCED TO STS (PERCENT MEMBERS PERFORMING)

TASKS		TASK DIFF	INS COM	INS FLT	DOPPLER	CAR IV-E	MADAR	ADM SUP
U573	ADJUST MADAR SCU	5,63	c	c	40	c	30	-
115.00	ALION MARKE MARKET		>	•		>	2	7
7900	ALLEN MADAK MINIX	5.58		0	*	0	31	<b>,</b>
<b>U592</b>	BENCH CHECK MADAR ODRU	5.56	-	0	0	0	45	-
U572	ADJUST MADAR CMA	5.54	0	0	0	0	30	. –
U578	ALIGN MADAR CMA	5.54	0	0	C	0	32	
0607	ISOLATE MALFUNCTIONS TO SCM SRU	5.49	-	0	· c	0	3 6	• ~
U588	8 BENCH CHECK MADAR SCU	5.46	·	0	0	0	77	۱
U585	ALIGN MADAR SCM	5.37	<b>,-</b> 1	0	0	0	31	-
N296	BENCH CHECK MADAR SCH	5.37	-	0	0	0	36	ı <del>, ,</del>
<b>0589</b>	BENCH CHECK MADAR DRU	5.29	-	0	0	0	77	
6 US87	BENCH CHECK MADAR COMPUTERS	5.27	-	0	0	0	77	, ,
U59.	BENCH CHECK MADAR SCA	5.27	-	0	0	0	41	-
U593	BENCH CHECK MADAR POU	5.11	-	0	0	0	43	· <del></del>
· US90	BENCH CHECK MADAR MDR	5.20	7	0	0	0	41	1

<sup>\*</sup> Indicates less than .5 percent members performing

Task difficulty mean = 5.0 Standard deviation = 1.0

## Plan of Instruction

The 25-week Avionic Inertial and Radar Navigation Systems course is a basic course intended to train beginners in an electronics-oriented career field. The program includes principles of electronics and methods for malfunction analysis and detection, isolation of malfunctions, and repair of various INS systems and components. As 328X4 personnel gain in experience, other courses are available to train them for more specialized functions such as special equipment repair. The various systems maintained by 328X4 personnel throughout the career field must require a great deal of system unique training.

The inventory for this survey included 778 tasks, but only approximately 85 tasks were performed by 30 percent or more 1-48 TAFMS personnel (see Table 14 in TAFMS section for examples). Consequently, personnel who review the POI should keep in mind that low percentages perform most tasks because of the varied missions of this career field. In this case, close attention should be given to the limited number of tasks first-enlistment personnel perform in common and the variety of systems they maintain.

There were numerous areas of the basic course where task data indicates less than 30 percent of first-enlistment (1-48 month TAFMS) personnel are performing associated tasks. The task list is somewhat detailed, covering a variety of INS systems. All tasks should be reviewed carefully to determine if training is appropriate with limited number of 328X4 personnel performing in their present jobs. Because of the low percent members performing limited jobs performed by the first-term members, consideration should be given to increasing basic electronics and less involvement in the more system-related functions.

Some tasks performed by 30 percent or more of the 1-48 months TAFMS personnel were not matched to any portion of the entire course POI. Table 18 displays these tasks for training personnel review. Some of these tasks received low task difficulty ratings, indicating that those items may not require detailed training in a formal training course. Other items may warrant consideration for inclusion based on percent members performing. An indepth review of this list of tasks and the complete listing in the training extract may indicate a need for additional modifications in an attempt to provide more effective entry-level training.

TABLE 18

TASKS NOT REFERENCED TO POI 328X4 PERFORMED BY AT LEAST 30 PERCENT OF FIRST-TERMERS

			PERCENT MEMBERS PERFORMING	MEMBERS NG
TASKS		TASK	FIRST-	FIRST- ENLISTMENT
6199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE REPLACEABLE UNITS	Ċ	,	Š
3297	ISOLATE MALFUNCTIONS TO INERTIAL JUNCTION BOX COMPONENTS, SUCH AS	7.07	0	69
		6.71	31	32
J311		6.37	31	33
3290	ISOLATE MALFUNCTIONS TO CAROUSEL IV-E RELAYS, ANNUNCIATORS, OR SWITCHES	\% \%	97	77
6195	ISOLATE MALFUNCTIONS TO ASSOCIATED ATRCRAFT EQUIPMENT	2.8	5 ×	2 K
<b>J296</b>	10	5.72	07	04
<b>J302</b>	ISOLATE MALFUNCTIONS TO LEDEX RELAYS	5.58	07	40
<b>J315</b>	PERFORM GYRO BIAS	5.09	30	32
N451	ISOLATE MALFUNCTIONS TO GENERAL-PURPOSE OR NAVIGATIONAL COMPUTER			
		5.00	29	31
3306	ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	4.88	45	47
6201	PERFORM ON-EQUIPMENT QUALITY VERIFICATIONS	4.87	20	51
F172	SP	4.85	55	28
6126	ISOLATE MALFUNCTIONS TO COOLING SYSTEMS	4.79	33	37
6200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF			
	ASSOCIATED AVIONIC SYSTEMS	4.7.1	80	79
<b>J298</b>	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATIONAL UNITS (INU)	4.71	<b>79</b>	<b>79</b>
<b>G</b> 204	PERFORM QUALITY ASSURANCE CHECKS	4.69	34	37
<b>J</b> 299	ISOLATE MALEUNCTIONS TO INERTIAL NAVIGATION SYSTEMS (MSU)	4.67	31	31
<b>J304</b>	ISOLATE MALFUNCTIONS TO MODE SELECT UNITS (MSU)	4.67	26	57
<b>J293</b>		•	i	
		4.56	61	29
6209	REMOVE OR REPLACE COOLING SYSTEMS COMPONENTS	4.50	27	31
6213	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	4.46	63	79

TABLE 18 (CONTINUED)

# TASKS NOT REFERENCED TO POI 328X4 PERFORMED BY AT LEAST 30 PERCENT OF FIRST-TERMERS

			PERCENT MEMBERS PERFORMING	MEMBERS NG
TASKS		TASK	FIRST- JOB	FIRST- ENLISTMENT
0613	I AINCU OD DECAUED ATDODAES			ŗ
F 1 / 0	LAUNCH ON NECOVER AINCINET	4.39	2	<b>}</b>
H234	REMOVE OR REPLACE DOPPLER SENSOR ANTENNAS	4.37	36	32
6211		4.30	65	89
D107	DEMONSTRATE OPERATION OF EQUIPMENT	4.28	33	77
3331	REMOVE OR REPLACE LEDEX RELAYS	4.27	36	38
6214	SPLICE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	4.21	65	89
<b>J343</b>	REPROGRAM INS DIGITAL COMPUTERS	4,16	34	36
D108	DEMONSTRATE PROCEDURES FOR LOCATING TECHNICAL INFORMATION	4.13	21	31
<b>J289</b>	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	3.95	20	20
C84	INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS	3.81	07	43
K364	BENCH CHECK MODE SELECT UNITS	3.69	34	32
F181	OPERATE POWER AGE	3.43	55	26
1336	NAVIG/	3.41	<b>7</b> 7	77
N460	REMOVE OR REPLACE GENERAL-PURPOSE OR NAVIGATIONAL COMPUTER CONTROL			
	INDICATORS	3.37	29	30
F180	OPERATE OR SERVICE MAINTENANCE DISPATCH VEHICLES	3.29	31	33
C81	INSPECT CONSOLIDATED TOOL KITS (CTK)	3.26	41	43
<b>J329</b>	REMOVE OR REPLACE INU	3.21	9	59
F179	OPERATE NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	3.14	37	41
6193	INSPECT COOLING SYSTEMS	2.93	33	34
<b>J317</b>	REMOVE OR REPLACE BATTERY UNITS (BU)	2.83	24	53
<b>G215</b>	TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	2.82	51	24
E150	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	2.79	45	45
E137	(SPECIALIST I	2.62	55	58
<b>J333</b>	REMOVE OR REPLACE MODE SELECT UNITS (MSU)	2.61	55	55
6194		2.61	77	97
6206	OR INSTALL ACCESS	2.54	99	99
<b>G212</b>	SECURE OR SAFETY LRU IN AIRCRAFT	2.36	90	98

Task difficulty mean = 5.0 Standard deviation = 1.0

### ELECTRONICS PRINCIPLES INVENTORY (EPI)

One other source of information for 328X4 training developers is the recently completed electronics principles inventory (EPI). The EPI is a knowledge-based job inventory which identifies the range of electronics principles personnel need to perform any electronics-oriented job. Table 19 displays the percent of 32854 personnel reporting use of electronics principles as part of their jobs. Examples of subject areas used by 50 percent or more of the 168 survey respondents included A/C D/C current, transistors, soldering or solderless connections, meter movements, multivibrators, and limiters and clampers. The full list shown in Table 19 reflects the variation of jobs with 22 of the available 56 areas used by 50 percent or more of 328X4 personnel on the job. These subject areas provide a picture of the depth of involvement of 328X4 personnel with electronics principles.

# TABLE 19

### ELECTRONICS PRINCIPLES INVENTORY (EPI) PERCENTAGE OF 328X4 PERSONNEL USING PRINCIPLES

TABLE 19	
ELECTRONICS PRINCIPLES INVENTORY (EPI) PERCENT 328X4 PERSONNEL USING PRINCIPLES	TAGE OF
	PERCE USING
SUBJECT AREA	(N=16
DIRECT CURRENT	97
RESISTANCE AND RESISTIVE CIRCUIT	96
METERS/MULTIMETERS	93
ALTERNATING CURRENT	81
METER MOVEMENTS RELAYS	79 77
MATHEMATICS	76
RCL CIRCUITS	76
OSCILLOSCOPES	7:
SOLDERING OR SOLDERLESS CONNECTIONS	75
ELECTRON TUBES	7:
FILTERS	7:
MULTIVIBRATORS CARACITORS AND CARACITATE DEACTANCE	70
CAPACITORS AND CAPACITIVE REACTANCE	6! 64
COMPUTER, MICROPROCESSORS, AND PROGRAMMING POWER SUPPLIES	6:
SOLID-STATE SPECIAL PURPOSE DEVICES	6
LOGIC FUNCTIONS	5
LIMITERS AND CLAMPERS	5
TRANSFORMERS	5
COUNTERS	5
USE OF SIGNAL GENERATORS	5
TRANSISTORS CABLE FABRICATION	4 4
DIGITAL-TO-ANALOG/ANALOG-TO-DIGITAL CONVERTERS	4
NUMBERING SYSTEMS	4
INPUT/OUTPUT (PERIPHERAL) DEVICES	4
TIMING CIRCUITS	3
HETERODYNING AND MODULATION-DEMODULATION (MODEMS)	3
MOTORS AND GENERATORS	3
WAVESHAPING CIRCUITS	3
TIME CONSTANTS TRANSISTOR AMPLIFIERS	3 3
SPECIAL PURPOSE ELECTRON TUBES	3
OSCILLATORS	3
COUPLING	3
SCHMITT TRIGGERS	2
MAGNETISM	2
DB AND POWER RATIOS	2.
ELECTRON TUBE AMPLIFIERS AND CIRCUITS	2
MICROPHONE AND SENSING DEVICES PHANTOSTRON	1: 1
PHANTOSTRON SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	1.
SATURABLE REACTORS AND HAURELIC MIFLIFLERS	1,
68	

### ANALYSIS OF MATOR COMMAND DIFFERENCES

Another possible dimension along which jobs performed by respondents may vary is mission as reflected by Major Command (MAJCOM). quently, the seven major user commands of the 328X4 incumbents are examined in terms of tasks performed, aircraft worked on, systems mainbackground characteristics, and job satisfaction. commands examined are TAC, MAC, SAC, AFSC, USAFE, PACAF, and ATC. These seven major commands comprise 98 percent of the 328X4 sample. overall job of performing both in-shop and flightline maintenance on Avionics Inertial and Radar Navigation Systems are fairly similar across commands, with the exception of ATC, which is involved primaril, with the training The main differences between 328X4 personnel in the remaining commands are the aircraft and/or specific systems maintained. through 24 provide data for the MAJCOM groups. For an overall view of how the jobs vary among MAJCOM groups, Table 20 lists the MAJCOM distribution across the job groups identified in the career ladder structure. Note that Administrative and Supervisory jobs are distributed across all commands, others, such as Trainers or the MADAR cluster, are concentrated primarily in one command.

Job satisfaction indicators (see Table 21) job interest and perceived utilization of talents for all command groups are fairly high (50 percent or more). Perceived use of training is systematically lower for MAC, USAFE, and PACAF, which suggests possible problems in applicability of training for incumbents in these commands. Further discussions of each command group follow.

### MAC

The 375 members of MAC responding to the survey account for 34 percent of the sample. They have an average grade of E-4 and 62 percent are in their first enlistment. MAC personnel worked on both doppler and INS systems performing both flightline and in-shop maintenance and are involved primarily with C-5A, A-10, C-130S, and C-141A/B aircraft (see Table 22). MADAR functions are a specialized mission of MAC personnel.

### TAC

Consisting of 274 individuals (23 percent of the survey sample), these members maintained both doppler and INS systems and performed both in-shop and flightline maintenance. TAC is the only command that maintains the APN-213 doppler systems (see Table 23). Other INS systems maintained include APN-101, ASN-56, ASN-63, and Carousel IV-E. Of the special systems, the omega navigation systems are maintained by TAC personnel only, and stellar inertial doppler systems are maintained by TAC and USAFE (see Table 24). TAC personnel maintain RF-4C, E-3A, F-4D/E, and F-4C, and A-10. These personnel have an average grade of E-4 and 65 percent are in their first enlistment.

### **AFSC**

This command reflects a small representation (2 percent) of the survey sample. AFSC personnel maintain both doppler and INS systems and perform both in-shop and flightline maintenance. Systems maintained included APN-218, and APN-147 doppler systems, and APN-101, APN-56, APN-63, APN-65, LN-39, LN-51, Carousel IV-E and palletized INS. Special systems maintained include digital modulators, INS Inertial REF systems-IRS, navigation computer and weapon release computer systems. AFSC personnel maintain systems on RF-4C, EC-135C/K, RC-135E/M/S/U/V, C-135A/B, KC-135A/Q/R/T, F-4D/E, F-4C, A-10, C-130/A/B/D/E, NKC-135, and C-141. Only 42 percent of AFSC personnel are in their first enlistment (versus 65 percent for TAC and 62 percent for MAC).

### USAFE

The 115 respondents (10 percent of sample) assigned to USAFE reported performing functions involving only three of the identified jobs (see Table 20): INS Components Repair Personnel, Doppler Systems Repair Personnel, and Administrative and Supervisors. USAFE personnel work on both doppler and INS systems which involve RF-4C, EC-135C/K, RC-135E/M/S/U/V, C-135A/B, KC-135A/B, F-4D/E, WC-130B/E/H, and HC-130H/N/P. Special systems worked on by these members were digital modulator avionic systems, INS Inertial REF systems-IRS, navigation computer, stellar inertial doppler, and wepaon release computer system. Fifty-one percent are in their first enlistment, with an average grade of E-4.

### **PACAF**

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This is the smallest representation of all major commands discussed, with 21 incumbents. PACAF personnel maintained both doppler and INS systems in in-shop and flightline environments. These personnel work on the APN-218 and APN-147 doppler systems and a variety of INS systems which are involved with several aircraft models (see Tables 22 and 23). Digital modulator avionic system, INS inertial REF system-IRS, navigation computer, and weapon release computer system are special systems worked on by PACAF personnel. Four of the jobs identified by the job structure analysis were performed by PACAF personnel: INS component repair, INS flightline maintenance, doppler system repair, and administration and supervision. Twenty-nine percent are in their first enlistment, and their average grade is E-4.

### SAC

The 263 individuals responding to the survey who are assigned to SAC report maintaining both doppler and INS systems. Those systems included APN-81, 89, 89A, 99, 213, and 93 doppler systems and LN-20 (ASN-121), LN-33, NAS-14V2, Carousel IV-E INS systems and are involved with a variety

of aircraft (see Table 22). SR-71/AC, U-2A/B/D/R and TR-1A/B aircraft and astro INS special systems and are maintained only by SAC personnel. Sixty-two percent of SAC respondents are in their first enlistment with an average grade of E-4.

# ATC

The ATC group is comprised of 63 individuals, consisting mainly of resident technical and field training detachment (FTD) course instructors. This group has an average grade of E-4 with the highest (109) average number of months of experience of all major commands discussed. The primary functions of ATC personnel is training; they indicate a familiarity with both doppler and INS systems. Most of the systems worked on are special equipment used in support of training.

### Summary

The jobs performed by major commands are technically similar (except the ATC group, which is concerned mainly with training). The main differentiating factor is the avionic INS systems and aircraft models worked on. Task differences tend to be due to systems worked on or specialized jobs performed by major commands (MADAR, Astro INS). Job satisfaction indicators are the highest for AFSC and the lowest for USAFE (see Table 21).

TABLE 20

DISTRIBUTION OF MEMBERS OF EACH JOB GROUP WITHIN EACH MAJOR COMMAND (PERCENT)

	MAC	TAC	SAC	AFSC	USAFE	PACAF	ATC	OTHERS
INS COMPONENT REPAIR CLUSTER (GRP043, N=155)	t	57	•	10	28	က	*	7
INS FLIGHTLINE MAINTENANCE PERSONNEL (GRP039, N=161)	7	69	7	ı	20	က	ı	4
DOPPLER SYSTEMS REPAIR PERSONNEL (GRP044, N=493)	38	∞	97	-	4	-	7	•
CAROUSEL IV-E NAVIGATION SYSTEM REPAIR (GRP067, N=74)	62	78	7	ı	•		ı	က
B-52G/H REPAIR PERSONNEL (GRP052, N=9)	ı	ı	78	1	•	1	ı	22
SPECIAL EQUIPMENT TECHNICIANS (GRP094, N=7)	14	29	28	ı	•	1	29	ı
MADAR SYSTEMS REPAIR CLUSTER (GRP054, N=166)	66	1	ı	1	•	•	1	ı
ADMINISTRATIVE AND SUPERVISORY CLUSTER (GRP018, N=105)	29	20	11	4	17	2	∞	9
TRAINING PERSONNEL (GRP008, N=38)	ı	ı		ı	ı	ı	100	•

\* Less than 1 percent

TABLE 21

JOB SATISFACTION INDICES FOR MAJOR COMMANDS (PERCENT MEMBERS RESPONDING)

	MAC (N=395)	TAC (N=274)	SAC (N=263)	AFSC (N=26)	USAFE (N=115)	PACAF (N=21)	ATC (N=63)
EXPRESSED JOB INTEREST:							
DULL	11	9	6	-	15	14	3
S0-S0	12	19	14	12	15	14	10
INTERESTING	77	71	79	88	70	72	86
NOT REPORTED	-	1	1	-	-	-	1
PERCEIVED UTILIZATION OF TALEN	TS:						
LITTLE OR NOT AT ALL	20	25	14	12	34	33	14
FAIRLY WELL OR BETTER	80	74	85	88	66	67	86
NOT REPORTED	*	1	1	-	-	-	-
PERCEIVED UTILIZATION OF TRAIN	ING:						
LITTLE OR NOT AT ALL	36	29	28	12	44	33	13
FAIRLY WELL OR BETTER	63	71	72	88	56	67	87
NOT REPORTED	1	*	-	•	-	-	-
REENLISTMENT INTENTIONS:							
PLAN TO RETIRE	4	5	4	-	7	10	10
NO, OR PROBABLY NO	32	30	32	4	33	19	11
YES, OR PROBABLY YES	63	65	64	96	60	71	76
NOT REPORTED	1	-	-	-	-	-	3

TABLE 22

AIRCRAFT MAINTAINED BY AT LEAST 10 PERCENT OF MAJOR COMMAND GROUPS
(PERCENT MEMBERS PERFORMING)\*

AIRCRAFT	SAC	TAC	AFSC	USAFE	ATC	MAC	PACAF
SR-71A/C	14	-	-	-	-	-	-
U-2A/B/D/R	11	-	-	-	-	-	-
TR-1A/B	11	-	-	-	-	-	-
RF-4C	-	21	61	17	-	-	33
EC-130E/H	-	-	-	-	11	-	10
EC-135C/K	17	-	12	-	•	-	19
RC-135E/M/S/U/V	22	-	10	14	-	-	10
VC-135	-	-	-	-	-	-	19
E-3A	-	12	_	-	-	-	-
E-4A/B	11	-	-	-	-	-	-
C-5A	-	-	-	-	-	60	-
C-135A/B	-	-	15	10	-	-	14
KC-135A/Q/R/T	91	-	12	17	-	-	19
KC-135A/B	-	-	-	-	-	-	14
F-4D/E	-	52	69	48	-	-	52
F-4G	-	10	-	-	-	-	24
F-4C	-	-	-	31	-	-	-
B-52G/H	42	-	10	-	-	-	-
WC-130B/E/H	-	-	-	10	11	10	10
A-10	-	10	65	22	-	-	10
HC-130H/N/P	-	-	10	10	-	10	10
C-130A/B/D/E	-	_	19	13	-	34	19
NKC-135	-	-	35	10	_	-	-
C-141A/B	-	-	27	-	-	65	10

<sup>\*</sup> Columns will total more than 100 percent due to multiple responses

TABLE 23

SYSTEMS MAINTAINED BY AT LEAST 10 PERCENT OF MAJOR COMMAND GROUPS (PERCENT MEMBERS PERFORMING)

	SAC	TAC	AFSC	USAFE	ATC	MAC	PACAF
DOPPLER SYSTEMS							
APN-81	27	-	-	_	-	-	-
APN-89	31	-	-	-	-	-	-
APN-89A	24	-	-		-	-	-
APN-99	10	-	-	-	-	-	-
APN-213	-	11	-	-	-	-	-
APN-218	93	3	30	17	11	-	14
APN-147	-	•	19	13	13	39	
NAVIGATION SYSTEMS							
ARN-101	_	31	54	39	-	-	33
ASN-24	-	-	-	-	-	10	_
ASN-56	-	22	65	11	14	-	43
ASN-63	-	48	69	47	11	-	62
ASN-48	-	-	65	-	10	-	-
LN-20 (ASN-121)	21	-	-	12	-	-	-
LN-33	11	-	-	~	-	-	-
LN-39	-	-	15	9	-	-	-
LTN-51	-	-	23	-	-	-	-
NAS-14V2	14	-	-	-	-	-	-
CAROUSEL IV-E	92	10	35	17	13	72	19
PALLETIZED INS	<b>-</b>	-	19	-	-	_	19
NAVIGATION COMPUTERS							
ASN-45C	-	-	15	9	-	-	-
ASN-35	-	_	19	12	13	33	19
ASN-7	21	-	-	-	-	-	_
ASN-7A	11	-	-	-	-	-	-
ASN-46	-	29	31	24	11	-	24
ASN-46A	-	45	58	37	-	-	33
ASN-35C	-	-	-	-	13	10	14
DNC	88	-	37	17	-	-	14

TABLE 24 SPECIAL SYSTEMS USED BY MAJOR COMMAND GROUPS (PERCENT MEMBERS PERFORMING)

SPECIAL SYSTEMS USED BY MAJOR COMMAND GROUPS           SPECIAL SYSTEMS         SAC         TAC         AFSC         USAFE         ATC         MAC         PACAF           ASTRO INS         14         -	PERCENT MEMBERS PERFORMING   PACE   SAC   TAC   AFSC   USAFE   ATC   MAC   PACE   PA		ABLE 24						
ASTRO INS  14	14					GROUPS	;		
DIGITAL MODULATOR AVIONIC SYSTEMS       -       30       43       38       -       -       33         INS INERTIAL REF SYSTEMS-IRS       56       46       46       41       19       44       19         NAVIGATION COMPUTER       44       51       65       44       16       30       38         MADAR       -       -       -       -       -       -       51       -         OMEGA NAV SYS       -       11       -       -       -       -       -       -       -         STELLAR INERTIAL DOPPLER       -       12       -       12       -       <	OIGITAL MODULATOR AVIONIC SYSTEMS	SPECIAL SYSTEMS	SAC	TAC	AFSC	USAFE	ATC	MAC	PACAF
INS INERTIAL REF SYSTEMS-IRS 56 46 46 41 19 44 19  NAVIGATION COMPUTER 44 51 65 44 16 30 38  MADAR 51 -  OMEGA NAV SYS - 11  STELLAR INERTIAL DOPPLER - 12 - 12	INS INERTIAL REF SYSTEMS-IRS 56 46 46 41 19 44  IAVIGATION COMPUTER 44 51 65 44 16 30  IADAR 51  IMEGA NAV SYS - 11  ITELLAR INERTIAL DOPPLER - 12 - 12	ASTRO INS	14	-	-	-	-	-	-
NAVIGATION COMPUTER       44       51       65       44       16       30       38         MADAR       -       -       -       -       -       51       -         OMEGA NAV SYS       -       11       -       -       -       -       -       -         STELLAR INERTIAL DOPPLER       -       12       -       12       -       -       -       -	IAVIGATION COMPUTER       44       51       65       44       16       30         IADAR       -       -       -       -       51         OMEGA NAV SYS       -       11       -       -       -         STELLAR INERTIAL DOPPLER       -       12       -       12       -       -	DIGITAL MODULATOR AVIONIC SYSTEMS	-	30	43	38	-	-	33
MADAR 51 -  OMEGA NAV SYS - 11  STELLAR INERTIAL DOPPLER - 12 - 12	ADAR	INS INERTIAL REF SYSTEMS-IRS	56	46	46	41	19	44	19
OMEGA NAV SYS - 11	MEGA NAV SYS - 11	NAVIGATION COMPUTER	44	51	65	44	16	30	38
STELLAR INERTIAL DOPPLER - 12 - 12	TELLAR INERTIAL DOPPLER - 12 - 12	MADAR	-	-	-	-	-	51	-
		OMEGA NAV SYS	-	11	-	-	-	-	-
WEAPON RELEASE COMPUTER SYSTEMS - 45 54 43 14 - 43	TEAPON RELEASE COMPUTER SYSTEMS - 45 54 43 14 -	STELLAR INERTIAL DOPPLER	-	12	-	12	-	-	-
		WEAPON RELEASE COMPUTER SYSTEMS	-	45	54	43	14	-	43
	76		76						

### ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

Comparisons between the functions performed and background data of airmen assigned overseas versus those assigned within CONUS can provide useful information for trainers and managers.

An analysis of task performance differences between the 405 5-skill level incumbents assigned within CONUS and the 129 5-skill level incumbents stationed overseas reveals very few differences between the two groups. On the average, CONUS members performed 108 tasks, compared to 116 for their counterparts overseas.

Table 25 lists those tasks showing the greatest difference in percent members performing. As shown, tasks related to OJT, battery units, cooling systems, ISN systems connectors, MSU and inertial and doppler preventive maintenance are performed by larger percentages of CONUS members. A larger percentage of overseas members perform tasks related to access panels, launching and recovering aircraft, refueling and defueling aircraft, and repairing general purpose navigation computers.

In general, the differences are relatively small. Where there is some difference, it may be a function of mission (tactical versus airlift or strategic) or MAJCOM.

TABLE 25

# TASKS WHICH BEST DIFFERENTIATE BETWEEN CONUS/OVERSEAS PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		CONUS	OVERSEAS	DIFF
D102	CONDUCT OJT	47	32	+15
J317	REMOVE OR REPLACE BATTERY UNITS	52	37	+15
G209	REMOVE OR REPLACE COOLING SYSTEM COMPONENTS	35	21	+14
G208	REMOVE OR REPLACE AVIONIC INERTIAL OR RADAR			
	NAVIGATION SYSTEM CONNECTORS	65	51	+14
J333	REMOVE OR REPLACE MODE SELECTOR UNITS (MSU)	54	41	+13
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL			
	AND DOPPLER NAVIGATION SYSTEMS	72	59	+13
J331	REMOVE OR REPLACE LEDDEX RELAYS	43	30	+13
		•	•	
	•	•	•	•
	•	•	•	•
G206	REMOVE OR INSTALL ACCESS PANELS	59	74	-15
F178	LAUNCH OR RECOVER AIRCRAFT	50	64	-14
F185	REFUEL OR DEFUEL AIRCRAFT	13	27	-14
N455	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR			
	NAVIGATIONAL COMPUTER SYSTEMS INDICATORS	20	34	-14
0489	REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGA-			
	TIONAL COMPUTER (SRU)	19	33	-14
F187	SERVICE AIRCRAFT WITH HYDRAULIC FLUID, AIR			
	OIL	5	19	-14
0469	ALIGN GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	20	33	-13

### COMPARISON TO PREVIOUS SURVEYS

Results of this survey were compared to the results of OSR AFPT 90-328-265 (Avionic Inertial and Radar Navigation Systems career ladder) dated 28 April 1978. Comparisons were made to career ladder structure (Table 26) and job satisfaction indicators by TAFMS group (Table 27). Findings in the 1978 OSR were slightly different from the present findings. The career ladder structure analysis identified all jobs identified in the previous survey and several other more specialized jobs, such as Special Equipment Technicians and MADAR Systems Repair Personnel. Generally, respondents to the present survey indicate a more common use of doppler equipment than respondents to the previous survey. This increase in usage of doppler equipment is probably the result of technological advances.

Table 27 indicates the job satisfaction indicators have increased since 1978. Most notably, reenlistment intentions have increased among first-enlistment personnel by 24 percent; this increase is part of a general trend across all specialties reflecting changes in the economy and general attitudes toward reenlistment.

Note that, while job interest has improved, particularly for first- and second-enlistment personnel, the percentages indicating satisfaction with use of training has changed only by a very small amount.

### TABLE 26

### COMPARISON OF 1978 328X4 SURVEY TO CURRENT STUDY

### Job Groups Identified

1984 Study (N=1,176)

1978 Study (N=1,248)

INS Component Repair Cluster (N=155)

Systems Repairmen (N=745)

INS Flightline Maintenance Personnel

Flightline Maintenance

(N=161)

(N=112)

Doppler System Repair Personnel (N=493)

Immediate Supervisors (N=186)

Carousel IV-E Navigation Systems Repair Cluster (N=74)

B-52G/H Repair Personnel (N=9)

Special Equipment Technician (N=9)

MADAR Systems Repair Cluster (N=166)

Administrative and Supervisory

(N=17)

Cluster (N=105)

Superintendents (N=185)

Avionic Staff Personnel

Training Personnel (N=38)

CONTINUES NO CONTINUES CON

Training Personnel (N=27)

TABLE 27

COMPARISON OF CURRENT AND PREVIOUS JOB SATISFACTION (PERCENT MEMBERS PERFORMING)

			TAFMS	GROUPS		
	1	1-48		-96	9	7+
JOB SATISFACTION	<u>1978</u>	1984	1978	1984	1978	<u>1984</u>
FIND JOB INTERESTING	64	76	56	74	73	75
FEEL TALENTS ARE WELL UTILIZED	67	79	68	81	81	84
FEEL TRAINING IS WELL UTILIZED	62	68	66	69	76	81
PLAN TO REENLIST	35	59	50	72	69	74

### **IMPLICATIONS**

Occupational survey results indicate a very diverse career ladder. Although this is a diverse career ladder, there is some commonality among the jobs of the incumbents of this field as a result of the performance of tasks necessary to maintain INS systems or the expansion of job responsibility resulting from additional supervisory and training duties inherent in gaining seniority. Seven major technical job groups, one supervisory group, and one training group were identified.

Specialty documents (AFR 39-1 and STS) were reviewed and were found generally descriptive of the career ladder.

In general, job satisfaction is relatively high in this specialty, with the majority of individuals in all TAFMS groups reporting they found their job interesting and their talents well utilized. Attitudes toward use of training suggest some problem.

The attempts to determine training needs or policy through task difficulty (TD) and training emphasis (TE) ratings were unsuccessful; there does not seem to be good agreement in the field as to what should be trained in initial skill training. This lack of agreement is probably due to the raters rating only tasks related to the systems they were familiar with and rating other tasks low or not all.

In addition, analysis of Specialty Training Standards (STS) revealed that, while there is good general coverage, there are some tasks not referenced to a specific STS paragraph. The lack of training emphasis and the number of tasks not referenced to a specific paragraph implies a need for a review of present training documents with users.

# APPENDIX A REPRESENTATIVE TASKS FOR CAREER LADDER STRUCTURE GROUPS

# REPRESENTATIVE TASKS PERFORMED BY INERTIAL NAVIGATION SYSTEM (INS) REPAIR PERSONNEL (GRP043)

TASKS		PERCENT MEMBERS PERFORMING (N=155)
K362	BENCH CHECK INERTIAL PLATFORMS	90
K380	PERFORM GYRO BIAS CALIBRATIONS	90
K349	ALIGN INERTIAL PLATFORMS	88
G212	SECURE OR SAFETY LRU IN AIRCRAFT	87
G210		
	MOCKUPS, SUCH AS KNOBS OR LAMPS	87
	BENCH CHECK INERTIAL COMPUTERS	83
	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	81
	BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS	81
	REMOVE OR REPLACE INERTIAL PLATFORMS	81
G202		
****	NAVIGATIONAL SYSTEMS	80
	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU	78
K348	ALIGN INERTIAL COMPUTERS	77
K378	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNIT SRU	77
K389	REMOVE OR REPLACE INERTIAL PLATFORM SRU	11
	OPERATIONALLY CHECK INERTIAL SYSTEMS	74
	REMOVE OR REPLACE OUTPUT SIGNAL DISTRIBUTION UNIT SRU	74
	REMOVE OR REPLACE INERTIAL COMPUTERS	73
	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	
	REMOVE OR REPLACE INERTIAL COMPUTER SRU	72
	TAG OR LABEL EQUIPMENT	72
	BENCH CHECK WRCS COMPUTERS	72
E160	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	70
7000	BREAKDOWNS (IPB)	72
	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS	70
	BENCH CHECK WRCS SYSTEMS	70
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	70
0000	REPLACEABLE UNITS (LRU)	70
G200		
0/70	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	69
0472	· · · · · · · · · · · · · · · · · · ·	<b>.</b> -
	AMPLIFIERS	67
	ALIGN OUTPUT SIGNAL DISTRIBUTION UNITS	67
G194	INSPECT SHOCK MOUNTS	66
J294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	63
C84	INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS	63
0469	ALIGN GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	54
0481	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR NAVIGATIONAL	
0/5-	COMPUTER SRU	55
0475	BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	57

# REPRESENTATIVE TASKS PERFORMED BY IN-SHOP INS COMPONENT REPAIR PERSONNEL (GRP189)

TASKS		PERCENT MEMBERS PERFORMING (N=18)
M450	VERIFY PROGRAM IN DMAS COMPUTERS BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU) ISOLATE MALFUNCTIONS TO DMAS SDC ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU ALIGN INERTIAL PLATFORMS BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU) CALIBRATE IMU BENCH CHECK INERTIAL PLATFORMS REMOVE OR REPLACE DMAS IMU SRU ISOLATE MALFUNCTIONS TO IMU SRU BENCH CHECK DMAS SDC	100
M436	BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU)	100
M439	ISOLATE MALFUNCTIONS TO DMAS SDC	100
K373	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU	94
K349	ALIGN INERTIAL PLATFORMS	94
K360	BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU)	94
M438	CALIBRATE IMU	94
K362	BENCH CHECK INERTIAL PLATFORMS	94
M444	REMOVE OR REPLACE DMAS IMU SRU	94
M440	ISOLATE MALFUNCTIONS TO IMU SRU	94
M435	BENCH CHECK DMAS SDC	94
M431	BENCH CHECK DMAS COMPUTERS	94
M432	BENCH CHECK DMAS INERTIAL MEASUREMENT UNIT BUFFERS (IMUB)	94
	BENCH CHECK INERTIAL COMPUTERS	89
	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	89
	REMOVE OR REPLACE DMAS IMUB SRU	89
M441	ISOLATE MALFUNCTIONS TO IMUB	89
K363	BENCH CHECK KEYER CONTROL/CONTROL AND DISPLAY UNITS	89
	PERFORM GYRO BIAS CALIBRATIONS	83
	REMOVE OR REPLACE DMAS COMPUTER SRU	83
	REMOVE OR REPLACE DMAS SDC SRU	83
	REPROGRAM IMU	83
	ALIGN DMAS COMPUTERS	83
M433	BENCH CHECK DMAS LORAN RECEIVERS	83
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	78 70
K348	ALIGN INERTIAL COMPUTERS	78 70
K389	REMOVE OR REPLACE INERTIAL PLATFORM SRU	78
E164	TAG OR LABEL EQUIPMENT	72 70
K386	REMOVE OR REPLACE INERTIAL COMPUTER SRU	72
K367	BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS	72 67
E150	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	67
0475	ALIGN INERTIAL COMPUTERS REMOVE OR REPLACE INERTIAL PLATFORM SRU TAG OR LABEL EQUIPMENT REMOVE OR REPLACE INERTIAL COMPUTER SRU BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	61
K375	ISOLATE MALFUNCTIONS TO INERTIAL REFERENCE UNIT/INERTIAL	
05.5.4	PLATFORM SRU	61 56
(15.17.	BENCH CHECK LIDES COMDITTEDS	70

# REPRESENTATIVE TASKS PERFORMED BY DIGITAL MODULAR GENERAL REPAIR PERSONNEL (GRP131)

TASKS		PERCENT MEMBERS PERFORMING (N=75)
M432	BENCH CHECK DMAS INERTIAL MEASUREMENT UNIT BUFFERS (IMUB)	99
M438	CALIBRATE IMU	97
M440	ISOLATE MALFUNCTIONS TO IMU SRU	97
M443	ISOLATE MALFUNCTIONS TO IMU SRU REMOVE OR REPLACE DMAS COMPUTER SRU ISOLATE MALFUNCTIONS TO DMAS SDC BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU) BENCH CHECK DMAS COMPUTERS BENCH CHECK DMAS SDC VERIFY PROGRAM IN DMAS COMPUTERS REMOVE OR REPLACE DMAS IMU SRU	97
M439	ISOLATE MALFUNCTIONS TO DMAS SDC	97
M436	BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU)	96
M431	BENCH CHECK DMAS COMPUTERS	96
M435	BENCH CHECK DMAS SDC	96
M450	VERIFY PROGRAM IN DMAS COMPUTERS	96
M444	REMOVE OR REPLACE DMAS IMU SRU	96
M441	ISOLATE MALFUNCTIONS TO IMUB	90
	REMOVE OR REPLACE DMAS IMUB SRU	96
E149		
	TAG)	95
	REMOVE OR REPLACE IMU	95
	OPERATIONALLY CHECK DMAS	93
	REMOVE OR REPLACE DMAS SDC SRU	93
	PERFORM GYRO BIAS CALIBRATIONS	93
	PERFORM DMAS FUNCTIONAL CHECKOUTS	92
	SECURE OR SAFETY LRU IN AIRCRAFT	92
	REMOVE OR REPLACE DMAS SDC	92
	REMOVE OR REPLACE DMAS IMUB	92
G210		
	MOCKUPS, SUCH AS KNOBS OR LAMPS	92
	PERFORM IMU AUTO-CALIBRATIONS	91
	ISOLATE MALFUNCTIONS TO DMAS SIGNAL DATA CONVERTERS (SDC)	
	REMOVE OR REPLACE DMAS COMPUTERS	91
	ISOLATE MALFUNCTIONS TO DMAS COMPUTERS	91
	ISOLATE MALFUNCTIONS TO IMU	89
M428	ALIGN DMAS COMPUTERS	89
K363	BENCH CHECK KEYER CONTROL/CONTROL AND DISPLAY UNITS BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU) BENOVE OR REPLACE INERTIAL BLATFORMS	89
K360	BENCH CHECK INERTIAL MEASUREMENT UNITS (IMU)	88
J321	REMOVE OR REPLACE INERITAL PLATFORMS	80
	BENCH CHECK INERTIAL PLATFORMS	88
	OPERATIONALLY CHECK INERTIAL SYSTEMS	84
K349		84 70
V2ED	DENCU CUECY INFORTAL COMDITTEDS	/u

# REPRESENTATIVE TASKS PERFORMED BY ASN-63 NAVIGATION SYSTEM IN-SHOP REPAIR PERSONNEL (GRP251)

TASKS		PERCENT MEMBERS PERFORMING (N=39)
Q514	BENCH CHECK WRCS COMPUTERS BENCH CHECK WRCS SYSTEMS BENCH CHECK WRCS COMPUTER CURSOR CONTROLS BENCH CHECK WRCS COMPUTER CONTROLS BENCH CHECK INERTIAL PLATFORMS ISOLATE MALFUNCTIONS TO WRCS COMPUTERS OPERATIONALLY CHECK WRCS SYSTEMS REMOVE OR REPLACE WRCS COMPUTERS ISOLATE MALFUNCTIONS TO WRCS COMPUTER CURSOR CONTROLS ALIGN INERTIAL PLATFORMS	100
Q515	BENCH CHECK WRCS SYSTEMS	100
Q513	BENCH CHECK WRCS COMPUTER CURSOR CONTROLS	100
Q512	BENCH CHECK WRCS COMPUTER CONTROLS	100
K362	BENCH CHECK INERTIAL PLATFORMS	97
P497	ISOLATE MALFUNCTIONS TO WRCS COMPUTERS	97
P502	OPERATIONALLY CHECK WRCS SYSTEMS	97
P507	REMOVE OR REPLACE WRCS COMPUTERS	97
P496	ISOLATE MALFUNCTIONS TO WRCS COMPUTER CURSOR CONTROLS	97 ·
K349	ALIGN INERTIAL PLATFORMS ISOLATE MALFUNCTIONS TO WRCS COMPUTER SUR OR MODULES ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	95
Q520	ISOLATE MALFUNCTIONS TO WRCS COMPUTER SUR OR MODULES	95
K373	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU	92
K374	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	92
E149	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTER AMPLIFIERS ALIGN WRCS COMPUTERS OPERATIONALLY CHECK INERTIAL SYSTEMS	92
0472	BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTER	
	AMPLIFIERS	92
Q510	ALIGN WRCS COMPUTERS OPERATIONALLY CHECK INERTIAL SYSTEMS BENCH CHECK INERTIAL COMPUTERS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION PECOPD)	92
	OPERATIONALLY CHECK INERTIAL SYSTEMS	92
K359	BENCH CHECK INERTIAL COMPUTERS	90
E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	
	COLLECTION RECORD) BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS REMOVE OR REPLACE WRCS COMPUTER MODULE OR COMPONENTS	90
K367	BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS	90
Q524	REMOVE OR REPLACE WRCS COMPUTER MODULE OR COMPONENTS	90
K378	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNIT SRU	90
Q525	REMOVE OR REPLACE WRCS COMPUTER SRU OR MODULES	90
P498	ISOLATE MALFUNCTIONS TO WRCS OR ASSOCIATED SYSTEMS	90
K394	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNIT SRU REMOVE OR REPLACE WRCS COMPUTER SRU OR MODULES ISOLATE MALFUNCTIONS TO WRCS OR ASSOCIATED SYSTEMS REMOVE OR REPLACE OUTPUT SIGNAL DISTRIBUTION UNIT SRU ALIGN INERTIAL COMPUTERS	90
K348	ALIGN INERTIAL COMPUTERS	87
K380	PERFORM GYRO BIAS CALIBRATIONS	87
E150	PERFORM GYRO BIAS CALIBRATIONS  MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS  REMOVE OR REPLACE INERTIAL COMPUTERS  REMOVE OR REPLACE CENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	87
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	87
0486	REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGATIONAL COMPUTER	
	AMPLIFIERS SRU	87
K389		87
G202		
	NAVIGATIONAL SYSTEMS	85
K353	ALIGN OUTPUT SIGNAL DISTRIBUTION UNITS	79
K386	REMOVE OR REPLACE INERTIAL COMPUTER SRU	74

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# REPRESENTATIVE TASKS PERFORMED BY ASN-56 NAVIGATIONAL SYSTEM FLIGHTLINE REPAIR PERSONNEL (GRP165)

TASKS		PERCENT MEMBERS PERFORMING (N=5)
J294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	100
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	100
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	100
J300	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS	100
G212	SECURE OR SAFETY LRU IN AIRCRAFT	100
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	100
J327	REMOVE OR REPLACE INERTIAL PLATFORMS	100
K374	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	100
0475	BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	100
K389	REMOVE OR REPLACE INERTIAL PLATFORM SRU	100
K380	PERFORM GYRO BIAS CALIBRATIONS	100
G195	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS SECURE OR SAFETY LRU IN AIRCRAFT REMOVE OR REPLACE INERTIAL COMPUTERS REMOVE OR REPLACE INERTIAL PLATFORMS ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS REMOVE OR REPLACE INERTIAL PLATFORM SRU PERFORM GYRO BIAS CALIBRATIONS ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT BENCH CHECK INERTIAL COMPUTERS	80
NJJ J	DENCH CHECK INDIVITAL COLLOIDERS	80
G202		
	NAVIGATIONAL SYSTEMS	80
	TAG OR LABEL EQUIPMENT	80
	INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	80
	REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	
G191	·	
	FILTERS	80
	ALIGN INERTIAL COMPUTERS	80
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	
	PERFORM GYRO BIAS	80
N457		
0100	COMPUTER SYSTEMS	80
0481		
****	COMPUTER SRU	80
	BENCH CHECK INERTIAL PLATFORMS	80
E144	MAINTAIN PRECISION MEASURING EQUIPMENT LABORATORY (PMEL)	•
	TEST EQUIPMENT SCHEDULES	60
	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	60
	INSPECT SHOCK MOUNTS	60
E141	MAINTAIN AFTO FORMS 244 OR 245 (SYSTEM/EQUIPMENT STATUS	
	RECORDS)	40

# REPRESENTATIVE TASKS PERFORMED BY ASN-56 NAVIGATIONAL SYSTEMS IN-SHOP REPAIR PERSONNEL (GRP072)

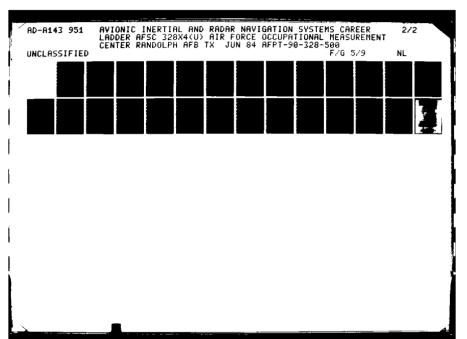
TASKS		PERCENT MEMBERS PERFORMING (N=14)
0481		100
0/75	COMPUTER SRU	
04/5	BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	93 93
K349	ALIGN INERTIAL PLATFORMS BENCH CHECK INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU ALIGN GENERAL PURPOSE OR NAVIGATIONAL COMPUTERS	93 86
K359	BENCH CHECK INERTIAL COMPUTERS	86
K3/3	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTER SRU	80
	BENCH CHECK INERTIAL PLATFORMS	86
E149	· · · · · · · · · · · · · · · · · · ·	0.0
- 1	TAG)	86
0489		
	SRU	86
	PERFORM GYRO BIAS CALIBRATIONS	86
K367	BENCH CHECK OUTPUT SIGNAL DISTRIBUTION UNITS	86
G210		
• •	MOCKUPS, SUCH AS KNOBS OR LAMPS	79
K348	ALIGN INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU INSPECT SHOCK MOUNTS BENCH CHECK HEADING COMPUTERS INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS REMOVE OR REPLACE INERTIAL COMPUTER SRU TAG OR LABEL EQUIPMENT BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTER AMPLIFIERS	71
K374	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORM SRU	71
G194	INSPECT SHOCK MOUNTS	71
K357	BENCH CHECK HEADING COMPUTERS	71
C84	INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS	71
K386	REMOVE OR REPLACE INERTIAL COMPUTER SRU	64
E164	TAG OR LABEL EQUIPMENT	64
0472	BENCH CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTER	
	AMPLIFIERS	64
	BENCH CHECK RECONNAISSANCE ADAPTER UNITS	64
K378	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNIT	
	SRU	64
0482	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTER SRU COMPONENTS	64
K353	ALIGN OUTPUT SIGNAL DISTRIBUTION UNITS	64
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	
	REPLACEABLE UNITS (LRU)	64
A13	ESTABLISH WORK PRIORITIES	57
B54	SUPERVISE APPRENTICE AVIONIC INERTIAL AND RADAR NAVIGATION	
	SYSTEMS SPECIALISTS (AFSC 32834)	50
01.66	ALICH CENEDAL DUDDOCE OF NAULCATIONAL COMPUTED AND ITTEDE	50

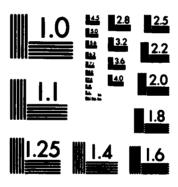
# REPRESENTATIVE TASKS PERFORMED BY INS FLIGHTLINE MAINTENANCE PERSONNEL (GRP039)

		PERCENT MEMBERS PERFORMING
TASKS		(N=161)
G212	SECURE OR SAFETY LRU IN AIRCRAFT OPERATIONALLY CHECK INERTIAL SYSTEMS ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	91
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	83
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	83
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	80
F178	LAUNCH OR RECOVER AIRCRAFT	77
F181	OPERATE POWER AGE	76
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER AVIONIC	
	SYSTEMS	76
G206	REMOVE OR INSTALL ACCESS PANELS	71
F182	PERFORM FIRE GUARD DUTIES	69
G215	TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	68
F188	TOW AIRCRAFT	67
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	64
G208	REMOVE OR REPLACE INERTIAL COMPUTERS REMOVE OR REPLACE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM CONNECTORS	
	SYSTEM CONNECTORS	64
F179	OPERATE NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE)	63
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKUPS, SUCH AS KNOBS OR LAMPS	61
J327	REMOVE OR REPLACE INERTIAL PLATFORMS	60
J300	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	60
F173	INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	60
	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	58
	REFUEL OR DEFUEL AIRCRAFT	57
	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	56
F171	ASSIST IN REMOVING OR REPLACING AIRCRAFT MECHANICAL SYSTEMS	52
E164	TAG OR LABEL EQUIPMENT	50
N457	OPERATIONALLY CHECK GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTER SYSTEMS	47
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	44
P502	OPERATIONALLY CHECK WRCS SYSTEMS	43
J329	REMOVE OR REPLACE INU	32
T220	DEMOVE OF DEDIACE CONTROL AND DICRIAY INSTEC (CDI)	20

# REPRESENTATIVE TASKS PERFORMED BY DIGITAL MODULATOR AVIONIC SYSTEM FLIGHTLINE REPAIR PERSONNEL (GRP263)

TASKS		PERCENT MEMBERS PERFORMING (N=30)
L411	OPERATIONALLY CHECK DMAS	100
	PERFORM DMAS FUNCTIONAL CHECKOUTS	100
	REMOVE OR REPLACE IMU	100
	ISOLATE MALFUNCTIONS TO IMU	100
	REMOVE OR REPLACE DMAS SDC	100
L400	ISOLATE MALFUNCTIONS TO DMAS COMPUTERS	100
L414	PERFORM IMU AUTO-CALIBRATIONS	100
L416	REMOVE OR REPLACE DMAS IMUB	100
L409	(IMUB)	100
L399	ISOLATE MALFUNCTIONS TO DIGITAL MODULAR AVIONIC SYSTEM	
	(DMAS) RELAY ASSEMBLIES	100
	REMOVE OR REPLACE IMU FILTER REGULATORS	100
L415	REMOVE OR REPLACE DMAS COMPUTERS	97
	ISOLATE MALFUNCTIONS TO DMAS SIGNAL DATA CONVERTERS (SDC)	97 27
	SECURE OR SAFETY LRU IN AIRCRAFT	97
	REMOVE OR REPLACE DMAS LORAN ANTENNA COUPLERS	97
	ISOLATE MALFUNCTIONS TO DMAS POWER SUPPLIES	97 97
L420		97
L410	ISOLATE MALFUNCTIONS TO TARGET INSERTION CONTROL (TIC)	97
C10F	PANELS	
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT ISOLATE MALFUNCTIONS TO DMAS LORAN RECEIVERS	93 93
	REMOVE OR REPLACE DMAS RELAY ASSEMBLIES	93 93
	REMOVE OR REPLACE DMAS LORAN RECEIVERS	93 93
L419		
L401	ANTENNA COUPLERS	90
G215	TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	90
G108	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	90
G200		,,
0200	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	83
F181		80
E148		00
D140	COLLECTION RECORD)	80
E149		
J. 77	TAG)	80
J313		67
	DEPENDENT DIAGRAM THE TIME OF THE CHAILES	63





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# REPRESENTATIVE TASKS PERFORMED BY ASN-46 NAVIGATIONAL COMPUTER REPAIR PERSONNEL (GRP200)

<u>TASKS</u>		PERCENT MEMBERS PERFORMING (N=12)
G212	SECURE OR SAFETY LRU IN AIRCRAFT	100
F178	LAUNCH OR RECOVER AIRCRAFT	100
G195	LAUNCH OR RECOVER AIRCRAFT ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	100
T122	DEDECOM FIRE CHARD DIFFIEC	100
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS OPERATIONALLY CHECK INERTIAL SYSTEMS REMOVE OR REPLACE INERTIAL COMPUTERS OPERATE POWER AGE ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	100
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	92
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	92
F181	OPERATE POWER AGE	92
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	92
G215	TAPE AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	92
J327	REMOVE OR REPLACE INERTIAL PLATFORMS	83
N452	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTERS	83
N453	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTER AMPLIFIERS	83
F188	TOW AIRCRAFT	83
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER	
	AVIONIC SYSTEMS	83
N457	OPERATIONALLY CHECK GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTER SYSTEMS	75
J300	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS	75
N451		
	COMPUTER CONTROL INDICATORS	75
N460	REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGATIONAL COMPUTER	
	CONTROL INDICATORS	75
N464	REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTERS	67
F171	ASSIST IN REMOVING OR REPLACING AIRCRAFT MECHANICAL	
	SYSTEMS	67
J308	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNITS	67
J321	REMOVE OR REPLACE HEADING COMPUTERS	67
	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	58
N461		_ =
	AMPLIFIERS	58
G206	REMOVE OR INSTALL ACCESS PANELS	58
	TAC OP LAREL FOULDMENT	5.8

# REPRESENTATIVE TASKS PERFORMED BY ASN-63 INS FLIGHTLINE REPAIR PERSONNEL (GRP161)

TASKS		PERCENT MEMBERS PERFORMING (N=68)
2010	ADALDE AD GATTOMY ANY AVAILABLE	
G212	SECURE OR SAFETY LRU IN AIRCRAFT OPERATIONALLY CHECK INERTIAL SYSTEMS REMOVE OR REPLACE INERTIAL PLATFORMS OPERATIONALLY CHECK WRCS SYSTEMS	94
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	93
J327	REMOVE OR REPLACE INERTIAL PLATFORMS	91
P502	OPERATIONALLY CHECK WRCS SYSTEMS	90
P50/	REMOVE OR REPLACE WRCS COMPUTERS	90
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	90
P505	REMOVE OR REPLACE WRCS COMPUTER CONTROLS	90
P506	REMOVE OR REPLACE WRCS COMPUTER CURSOR CONTROLS	90
P495	ISOLATE MALFUNCTIONS TO WRCS COMPUTER CONTROLS	88
P496	REMOVE OR REPLACE WRCS COMPUTERS  OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS REMOVE OR REPLACE WRCS COMPUTER CONTROLS REMOVE OR REPLACE WRCS COMPUTER CURSOR CONTROLS ISOLATE MALFUNCTIONS TO WRCS COMPUTER CURSOR CONTROLS REMOVE OR REPLACE INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT ISOLATE MALFUNCTIONS TO WRCS COMPUTERS ISOLATE MALFUNCTIONS TO WRCS COMPUTERS ISOLATE MALFUNCTIONS TO WRCS COMPUTERS ISOLATE MALFUNCTIONS TO WRCS OR ASSOCIATED SYSTEMS ISOLATE MALFUNCTIONS TO WEAPONS DELIVERY PANELS REMOVE OR REPLACE WEAPONS DELIVERY PANELS OPERATE POWER AGE PERFORM GYRO RIAS	88
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	87
J300	ISOLATE MALFUNCTIONS TO INERTIAL PLATFORMS	87
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	87
P497	ISOLATE MALFUNCTIONS TO WRCS COMPUTERS	85
P498	ISOLATE MALFUNCTIONS TO WRCS OR ASSOCIATED SYSTEMS	85
P494	ISOLATE MALFUNCTIONS TO WEAPONS DELIVERY PANELS	85
P504	REMOVE OR REPLACE WEAPONS DELIVERY PANELS	85
F181	OPERATE POWER AGE	84
J315	PERFORM GYRO BIAS	84
P501	OPERATE WEAPONS CONTROL SYSTEM (WCS) OR ASSOCIATED SYSTEMS	82
G195	OPERATE WEAPONS CONTROL SYSTEM (WCS) OR ASSOCIATED SYSTEMS ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	82
J308	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNITS	82
N461	ISOLATE MALFUNCTIONS TO OUTPUT SIGNAL DISTRIBUTION UNITS REMOVE OR REPLACE GENERAL PURPOSE OR NAVIGATIONAL COMPUTER	
	AMPLIFIERS	76
N453	ISOLATE MALFUNCTIONS TO GENERAL PURPOSE OR NAVIGATIONAL	
	COMPUTER AMPLIFIERS	76
J338	REMOVE OR REPLACE OUTPUT SIGNAL DISTRIBUTION UNITS	76
G206	REMOVE OR INSTALL ACCESS PANELS	75
J294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	72
N457	OPERATIONALLY CHECK GENERAL PURPOSE OR NAVIGATIONAL	
-	COMPUTER SYSTEMS	71
F173	INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	71
P503	COMPUTER AMPLIFIERS REMOVE OR REPLACE OUTPUT SIGNAL DISTRIBUTION UNITS REMOVE OR INSTALL ACCESS PANELS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS OPERATIONALLY CHECK GENERAL PURPOSE OR NAVIGATIONAL COMPUTER SYSTEMS INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION PERFORM STATIC BOMB RELEASES OTHER THAN DMAS	63

## REPRESENTATIVE TASKS PERFORMED BY AIRCRAFT SUPPORT PERSONNEL (GRP050)

TASKS		PERCENT MEMBERS PERFORMING (N=42)
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	88
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	83
G212	SECURE OR SAFETY LRU IN AIRCRAFT	81
F178	LAUNCH OR RECOVER AIRCRAFT	79
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	
	CONTROL INDICATOR UNITS (CIU)	79
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	76
J329	REMOVE OR REPLACE INU	76
J320	REMOVE OR REPLACE INU REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU) OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER	71
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	71 71 71
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	71
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER	
	AVIONIC SYSTEMS	71
F188	IOM MINCRAFI	09
F179	OPERATE NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE)	69
E149	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	69
G206	REMOVE OR INSTALL ACCESS PANELS	67
F185	REFUEL OR DEFUEL AIRCRAFT	64
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	62
F181	OPERATE POWER AGE	60
F187	REMOVE OR INSTALL ACCESS PANELS REFUEL OR DEFUEL AIRCRAFT ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT OPERATE POWER AGE SERVICE AIRCRAFT WITH HYDRAULIC FLUID, AIR, OR OIL ISOLATE MALFUNCTIONS TO MASTER BUSS CONTROLLERS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS PERFORM FIRE GUARD DUTIES	52
<b>J303</b>	ISOLATE MALFUNCTIONS TO MASTER BUSS CONTROLLERS	52
J294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	48
F182	PERFORM FIRE GUARD DUTIES	
	TAG OR LABEL EQUIPMENT	45
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	43
F171	ASSIST IN REMOVING OR REPLACING AIRCRAFT MECHANICAL SYSTEMS	43
F189	WASH AIRCRAFT	43
F173	INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	40
J314	OPERATIONALLY CHECK INERTIAL SYSTEMS INTERFACE WITH	
	ASSOCIATE EQUIPMENT OTHER THAN DMAS	38
	REMOVE OR REPLACE INERTIAL COMPUTERS	36
F180	OPERATE OR SERVICE MAINTENANCE DISPATCH VEHICLES	31
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKLIDE GICH AC KNODE OD LAMBE	20

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# REPRESENTATIVE TASKS PERFORMED BY DOPPLER SYSTEMS REPAIR PERSONNEL (GRP044)

TASKS		PERCENT MEMBERS PERFORMING (N=493)
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKUPS, SUCH AS KNOBS OR LAMPS	94
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	89
G212		88
G200		
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	86
G195	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	86
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	86
G197	ISOLATE MALFUNCTIONS TO RELAYS	83
	REMOVE OR REPLACE RELAYS	84
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITH LINE	
	REPLACEABLE UNITS (LRU)	83
	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	
	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTERS	82
	OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SYSTEMS	
H220	ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATIONAL COMPUTERS	81
J293		
	CONTROL INDICATOR UNITS (CIU)	77
G206	REMOVE OR INSTALL ACCESS PANELS	77
H233	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTER CONTROL	
	BOXES	77
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	76
J 3 2 9	REMOVE OR REPLACE INU	76
H234	REMOVE OR REPLACE DOPPLER SENSOR ANTENNAS	76
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	75
E160	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	
	BREAKDOWNS (IPB)	75
H219	REMOVE OR REPLACE INU REMOVE OR REPLACE DOPPLER SENSOR ANTENNAS OPERATIONALLY CHECK INERTIAL SYSTEMS RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS BREAKDOWNS (IPB) ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATION COMPUTER CONTROL BOXES	75
7017	REMOVE OR REPLACE BATTERY UNITS (BU)	73 74
	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	74
E130	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	7 <del>4</del> 72
	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU) ISOLATE MALFUNCTIONS TO DOPPLER SENSOR RECEIVER-	12
H223	TRANSMITTERS (RT)	71
H230		70
	INSPECT CONSOLIDATED TOOLS KITS (CTK)	70
	ISOLATE MALFUNCTIONS TO CAROUSEL IV-E RELAYS, ANNUNCI-	, -
V270	ATORS, OR SWITCHES	66
E170	I AINCH OF PROVED AIRCRAFT	55

# REPRESENTATIVE TASKS PERFORMED BY APN-218 DOPPLER NAVIGATION SYSTEM REPAIR PERSONNEL (GRP120)

TASKS		PERCENT MEMBERS PERFORMING (N=86)
		<u> </u>
J317	REMOVE OR REPLACE BATTERY UNITS (BU)	93
G212	SECURE OR SAFETY LRU IN AIRCRAFT REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR MOCKUPS, SUCH AS KNOBS OR LAMPS	93
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKUPS, SUCH AS KNOBS OR LAMPS	93
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	93
J293	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU) ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR CONTROL INDICATOR UNITS (CIU)	
	00111100 111010111011 011110 (010)	/-
H232	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTERS	92
G206	REMOVE OR INSTALL ACCESS PANELS	91
G197	ISOLATE MALFUNCTIONS TO RELAYS	91
H229	OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SYSTEMS	90
	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	90
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	90
J329	REMOVE OR REPLACE INU	90
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	88
H220	REMOVE OR REPLACE INU PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER NAVIGATIONAL SYSTEMS ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATIONAL COMPUTERS REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU) ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	88
J320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	87
J289	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	87
G211	REMOVE OR REPLACE RELAYS	87
J290	ISOLATE MALFUNCTIONS TO CAROUSEL IV-E RELAYS, ANNUNCI-	
	ATORS, OR SWITCHES	83
G213	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	83
	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	
	BREAKDOWNS (PB)	81
J296	ISOLATE MALFUNCTIONS TO INERTIAL JUNCTION BOXES	81
	OPERATIONALLY CHECK INERTIAL SYSTEMS	80
	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTER CONTROL	
	DOVEC	79
G198	ISOLATE MALEUNCTIONS TO WIRING PROBLEMS ON ALRCRAFT	78
1222	REMOVE OF REPLACE INEPTIAL COMPLETEDS	73
1204	ISOLATE MALEUNICTIONS TO INERTIAL COMPUTERS	73 73
G199	ISOLATE MAISTINCTIONS TO LIBITIC DECEMBER WITHIN TIME	13
0177	DEDIACEABLE INITE (IDII)	73
1344	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT REMOVE OR REPLACE INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE REPLACEABLE UNITS (LRU) VERIFY PROGRAM IN INS DIGITAL COMPUTERS BENCH CHECK DOPPLER NAVIGATIONAL COMPUTERS	73 73
1256	BENCH CHECK DOPPLER NAVIGATIONAL COMPUTERS	73 71
	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	
H230	OPERATIONALLY CHECK DOPPLER SENSOR SYSTEMS	65
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# REPRESENTATIVE TASKS PERFORMED BY GENERAL DOPPLER SYSTEMS MAINTENANCE PERSONNEL (GRP268)

TASKS		PERCENT MEMBERS PERFORMING (N=179)
H225	ISOLATE MALFUNCTIONS TO DOPPLER SENSOR RECEIVER-	
	TRANSMITTERS (RT)	99
H236	REMOVE OR REPLACE DOPPLER SENSOR FREQUENCY TRACKERS	99
H220	REMOVE OR REPLACE DOPPLER SENSOR FREQUENCY TRACKERS ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATIONAL COMPUTERS	99
TIAAA	DOMANT AD DEDITAGE DADDIED NATIFICAMIANTAL AAMDIMEDA	00
H239	REMOVE OR REPLACE DOPPLER NAVIGATIONAL CONFUTERS  REMOVE OR REPLACE DOPPLER SENSOR RECEIVER-TRANSMITTER (RT)	99
H219		
	CONTROL BOXES	99
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKUPS, SUCH AS KNOBS OR LAMPS	99
1259	BENCH CHECK DOPPLER SENSOR FREQUENCY TRACKERS	98
H222	ISOLATE MALFUNCTIONS TO DOPPLER SENSOR FREQUENCY TRACKERS	98
<b>I261</b>	BENCH CHECK DOPPLER SENSOR RT	98
	ISOLATE MALFUNCTIONS TO DOPPLER SENSOR RT SRU	98
	ISOLATE MALFUNCTIONS TO DOPPLER SENSOR ANTENNAS	98
H233	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTER CONTROL BOXES	98
T257	BENCH CHECK DOPPLER SENSOR ANTENNAS	98
1266		,,
1200	SRU	97
H229	OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SYSTEMS	
	BENCH CHECK DOPPLER NAVIGATIONAL COMPUTERS	97
1247		
	REMOVE OR REPLACE DOPPLER SENSOR RT SRU	97
	ISOLATE MALFUNCTIONS TO DOPPLER CONTROL BOXES	97
	REMOVE OR REPLACE DOPPLER SENSOR FREQUENCY TRACKER SRU	96
H234	REMOVE OR REPLACE DOPPLER SENSOR ANTENNAS	96
G199		
	REPLACEABLE UNITS (LRU)	95
<b>I246</b>	· · ·	
	UNITS (SRU)	94
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	92
G212	SECURE OR SAFETY LRU IN AIRCRAFT	92
1252	ALIGN DOPPLER SENSOR FREQUENCY TRACKERS	91
<b>I254</b>	ALIGN DOPPLER SENSOR RT	91
	ALIGN DOPPLER NAVIGATIONAL COMPUTERS	91
	REPAIR DOPPLER SENSOR FREQUENCY TRACKER SRU	89
	OPERATIONALLY CHECK DOPPLER SENSOR SYSTEMS	88
H217		
	CETC OF BORDER CENCORC	25

# REPRESENTATIVE TASKS PERFORMED BY DOPPLER SYSTEM SHIFT LEADERS AND NCOICS (GRP215)

TASKS		PERCENT MEMBERS PERFORMING (N=78)
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	99
E160	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	
TTOOO	BREAKDOWNS (IPB) OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SYSTEMS	97 97
	OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SISTEMS  OPERATIONALLY CHECK DOPPLER SENSOR SYSTEMS	97 97
	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTERS	97 97
H217	ISOLATE MALFUNCTIONS BETWEEN DOPPLER NAVIGATION COMPUTER	,,
1121,	SETS OR DOPPLER SENSORS	97
C81	INSPECT CONSOLIDATED TOOL KITS (CTK)	96
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT ISOLATE MALFUNCTIONS TO RELAYS	96
G197	ISOLATE MALFUNCTIONS TO RELAYS	96
H225	ISOLATE MALFUNCTIONS TO DOPPLER SENSOR RECEIVER-	
	TRANSMITTERS (RT)	95
G200		
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	95
E137		94
G210	· · · · · · · · · · · · · · · · · · ·	0.4
TODO	MOCKUPS, SUCH AS KNOBS OR LAMPS	94 92
G212	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU) SECURE OR SAFETY LRU ON AIRCRAFT	92 92
H222		
J329		92
C84	INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS	91
	INSPECT PARTS RECEIVED FROM SUPPLY OR MANUFACTURERS DEMONSTRATE OPERATION OF EQUIPMENT CONDUCT OJT OPERATIONALLY CHECK INERTIAL SYSTEMS PERFORM ON-EQUIPMENT QUALITY VERIFICATIONS	90
	CONDUCT OJT	88
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	88
G201	PERFORM ON-EQUIPMENT QUALITY VERIFICATIONS	88
J317		
H239	REMOVE OR REPLACE BATTERY UNITS (BU) REMOVE OR REPLACE DOPPLER SENSOR RECEIVER-TRANSMITTER (RT) LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	88
E136		86
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	85
B54	·	0.5
D100	SYSTEM SPECIALISTS (AFSC 32834)	85 85
D108 B34		85 83
D119		63
דונם	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	81
D116	INSTRUCT PERSONNEL ON EQUIPMENT MAINTENANCE OR REPAIR	01
2110	TECHNIQUES	79
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	• •
	SPECIALISTS (AFSC 32854)	73

# REPRESENTATIVE TASKS PERFORMED BY ASTRO INERTIAL NAVIGATION SYSTEMS (GRP166)

TASKS	PERFORM SR-71 OR U2/TR1 MISSION CONFIGURATIONS REMOVE OR REPLACE CHRONOMETERS BENCH CHECK ASTRO INERTIAL UNITS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) BENCH CHECK CHRONOMETERS OPERATIONALLY CHECK INERTIAL SYSTEMS	PERCENT MEMBERS PERFORMIN (N=26)
J316	PERFORM SR-71 OR U2/TR1 MISSION CONFIGURATIONS	100
J318	REMOVE OR REPLACE CHRONOMETERS	100
K354	BENCH CHECK ASTRO INERTIAL UNITS	100
E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	
	COLLECTION RECORD)	100
K355	BENCH CHECK CHRONOMETERS	96
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	96
G200	OPERATIONALLY CHECK INERTIAL SYSTEMS OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	96 96
J320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	96
J329	REMOVE OR REPLACE INU	96
W670	INSPECT SYSTEM TEMPERATURE AND VOLTAGE MONITOR (NSA-14V2)	96
	ISOLATE MALFUNCTIONS TO CHRONOMETERS	96
	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTERS	96
	ALIGN ASTRO INERTIAL UNITS	92
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	92
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	92
	PERFORM GYRO BIAS	92
	INSPECT COMPUTER MAINTENANCE PANELS (NSA-14V2)	92
W669	INSPECT SYSTEM INTERFACE TEST SETS (NSA-14V2)	92
W662	INSPECT PORTABLE COOLING UNITS (NSA-14V2)	92
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	•
	CONTROL INDICATOR UNITS (CIU)	92
G212	SECURE OR SAFETY LRU IN AIRCRAFT	92
G210	REMOVE OR REPLACE MINOR HARDWARE ON LRU, TEST SETS, OR	
	MOCKUPS, SUCH AS KNOBS OR LAMPS	92
W663	INSPECT PRINTER TEST SETS (NSA-14V2)	92
J317	REMOVE OR REPLACE BATTERY UNITS (BU)	88
G206	REMOVE OR INSTALL ACCESS PANELS	88
K380	PERFORM GYRO BIAS CALIBRATIONS	85
W654	INSPECT CONTROL AND DISPLAY TEST SETS (NSA-14V2)	85
W674	MOCKUPS, SUCH AS KNOBS OR LAMPS INSPECT PRINTER TEST SETS (NSA-14V2) REMOVE OR REPLACE BATTERY UNITS (BU) REMOVE OR INSTALL ACCESS PANELS PERFORM GYRO BIAS CALIBRATIONS INSPECT CONTROL AND DISPLAY TEST SETS (NSA-14V2) INSPECT TIME STANDARDS MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS REMOVE OR REPLACE INERTIAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	85
E150	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	81
J323	REMOVE OR REPLACE INERTIAL COMPUTERS	77
J294	ISOLATE MALFUNCTIONS TO INERTIAL COMPUTERS	77
F173	INSPECT EGRESS SYSTEM SAFETY PIN INSTALLATION	73

### REPRESENTATIVE TASKS PERFORMED BY CAROUSEL IV-E NAVIGATION REPAIR CLUSTER (GRP067)

TASKS		MEMBERS PERFORMING (N=74)
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	96
	OPERATIONALLY CHECK INERTIAL SYSTEMS	95
J293		
	CONTROL INDICATOR UNITS (CIU)	95
J329	REMOVE OR REPLACE INU	95
	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	95
	REMOVE OR REPLACE BATTERY UNITS (BU)	93
	REMOVE OR REPLACE MODE SELECT UNITS (MSU)	91
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	89
J320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	89
	TOOLATE MALEUNCTIONS TO MODE SELECT INITS (MSII)	89
G210		
	MOCKUPS, SUCH AS KNOBS OR LAMPS	86
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	86
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	84
G198	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	82
	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER	
	AVIONIC SYSTEMS	76
G212		76
	ISOLATE MALFUNCTIONS TO CAROUSEL IV-E RELAYS, ANNUNCI-	
	ATORS, OR SWITCHES	76
G197	ISOLATE MALFUNCTIONS TO RELAYS	76
J306	ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	74
J336	REMOVE OR REPLACE NAVIGATION UNITS (NU)	72
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	73
	REMOVE OR REPLACE RELAYS	73
J305	ISOLATE MALFUNCTIONS TO NAVIGATION COURSE SELECT PANELS OR	
	NAVIGATION SELECTOR PANELS (NSP)	69
J302	ISOLATE MALFUNCTIONS TO LEDEX RELAYS	68
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE REPLACEABLE UNITS (LRU)	
	REPLACEABLE UNITS (LRU)	68
F181	OPERATE POWER AGE	66
	DEMONSTRATE OPERATION OF EQUIPMENT	<b>6</b> 5
J334	REMOVE OR REPLACE NAVIGATION COURSE SELECT PANELS OR	
	NAVIGATION SELECTOR PANELS (NSP)	64
J331	REMOVE OR REPLACE LEDEX RELAYS	64
CR1	INSPECT CONSOLIDATED TOOL KITS (CTK)	62

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### REPRESENTATIVE TASKS PERFORMED BY C-5 AND C-141 NON-DOPPLER CAROUSEL IV-E REPAIR PERSONNEL (GRP082)

TASKS		PERCENT MEMBERS PERFORMING (N=51)
1110110		
J290	ISOLATE MALFUNCTIONS TO CAROUSEL IV-E RELAYS, ANNUNCI- ATORS, OR SWITCHES	96
G210	·	94
J293	,	94
7202	ISOLATE MALFUNCTIONS TO LEDEX RELAYS	94
J302	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	94
J290 T220	REMOVE OR REPLACE INU	94
	OPERATIONALLY CHECK INERTIAL SYSTEMS	92
	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	32
<b>GZUZ</b>	NAVIGATIONAL SYSTEMS	92
TORO	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	92 92
G200		72
0200	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	90
1217	REMOVE OR REPLACE BATTERY UNITS (BU)	90
J305	, ,	70
	OP NAVICATION SEIECTOD DANEIS (NSD)	88
.1320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	88
1331	REMOVE OR REPLACE LEDEX RELAYS	88
	ISOLATE MALFUNCTIONS TO RELAYS	88
G211		88
	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS ON AIRCRAFT	88
	REMOVE OR REPLACE COMPASS AMPLIFIER	88
	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	86
J334		
	NAVIGATION SELECTOR PANELS (NSP)	84
K366	BENCH CHECK NAVIGATIONAL SELECT PANELS	84
	ISOLATE MALFUNCTIONS TO COMPASS AMPLIFIERS	82
J339		82
J306	ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	80
G199	ISOLATE MALFUNCTIONS TO WIRING PROBLEMS WITHIN LINE	
	REPLACEABLE UNITS (LRU)	80
K365	BENCH CHECK NAVIGATION UNITS (NU)	75
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	75
G191	CLEAN INERTIAL NAVIGATION SYSTEM/DOPPLER NAVIGATION SYSTEM	
	FILTERS	75
J336	REMOVE OR REPLACE NAVIGATION UNITS (NU)	73
K393	REMOVE OR REPLACE NAVIGATIONAL SELECT PANELS UPPER SWITCH	
	ASSEMBLIES	71

# REPRESENTATIVE TASKS PERFORMED BY AWACS NAVIGATION SYSTEM REPAIR PERSONNEL (GPR101)

TASKS		PERCENT MEMBERS PERFORMING (N=23)
J313	OPERATIONALLY CHECK INERTIAL SYSTEMS	100
1298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	100
J289	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	100
R529	REMOVE OR REPLACE BATTERY UNITS (BU) ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU) ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU) ISOLATE MALFUNCTIONS TO OMEGA RECEIVER COMPUTERS REMOVE OR REPLACE OMEGA RECEIVER COMPUTERS CHANGE DESSICANT CRYSTALS REMOVE OR REPLACE INU	96
R536	REMOVE OR REPLACE OMEGA RECEIVER COMPUTERS	96
G190	CHANGE DESSICANT CRYSTALS	96
J329	REMOVE OR REPLACE INU	96
R531	ISOLATE MALFUNCTIONS TO OMEGA SYSTEMS OR ASSOCIATED	•
	AVIONIC SYSTEMS	96
R537	REMOVE OR REPLACE OMEGA SYSTEM CONTROL INDICATORS (SCI)	96
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	-
	CONTROL INDICATOR UNITS (CIU)	96
J333	REMOVE OR REPLACE MODE SELECT UNITS (MSU)	96
	ISOLATE MALFUNCTIONS TO MODE SELECT UNITS (MSU)	96
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER	
	AVIONIC SYSTEMS	91
R532	OPERATIONALLY CHECK OMEGA SYSTEMS	91
J320	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	91
R530	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU) ISOLATE MALFUNCTIONS TO OMEGA SYSTEM CONTROL INDICATORS	
	(SCI)	91
R527	ISOLATE MALFUNCTIONS TO OMEGA MODE SELECT UNITS	91
R534	REMOVE OR REPLACE OMEGA MODE SELECT UNITS	91
R538	REPROGRAM OMEGA SYSTEMS	91
G195	ISOLATE MALFUNCTIONS TO ASSOCIATED AIRCRAFT EQUIPMENT	87
G200		
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	87
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
	NAVIGATIONAL SYSTEMS	87
G206		87
G212	SECURE OR SAFETY LRU IN AIRCRAFT	87
	LAUNCH OR RECOVER AIRCRAFT	78
J336	REMOVE OR REPLACE NAVIGATION UNITS (NU)	70
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	70
	OPERATE POWER AGE	65
	ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	61
D107		61
D102		57
F150	MAKE ENTRIES ON MAINTENANCE HISTORICAL RECORDS	52

# REPRESENTATIVE TASKS PERFORMED BY B-52D/G REPAIR PERSONNEL (GRP052)

TASKS		PERCENT MEMBERS PERFORMING (N=9)
1320	REMOVE OR REPLACE INII	100
H232	REMOVE OR REPLACE INU REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTERS REMOVE OR REPLACE RATTERY UNITS (RIL)	100
1317	REMOVE OR REPLACE BATTERY UNITS (BU)	100
G202	PERFORM PREVENTIVE MAINTENANCE ON INERTIAL AND DOPPLER	
OLUL	NAVIGATIONAL SYSTEMS	89
G210		
0210	MOCKUPS, SUCH AS KNOBS OR LAMPS	89
G212		89
	REMOVE OR INSTALL ACCESS PANELS	89
G200	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	_
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	89
J333	REMOVE OR REPLACE MODE SELECT UNITS (MSU)	78
	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	78
J289	ISOLATE MALFUNCTIONS TO BATTERY UNITS (BU)	78
G213	SOLDER AVIONIC INERTIAL OR RADAR NAVIGATION SYSTEM WIRING	78
	OPERATIONALLY CHECK INERTIAL SYSTEMS	67
	BENCH CHECK DOPPLER NAVIGATIONAL COMPUTERS	67
13/3	REPROCRAM INC DIGITAL COMPUTERS	67
H229	OPERATIONALLY CHECK DOPPLER NAVIGATIONAL COMPUTER SYSTEMS REMOVE OR REPLACE DOPPLER SENSOR FREQUENCY TRACKERS	56
H236	REMOVE OR REPLACE DOPPLER SENSOR FREQUENCY TRACKERS	56
F181	OPERATE POWER AGE	56
T2/./.	VEDIEV DROCDAM IN THE DICITAL COMPUTERS	56
J298	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	56
G194	INSPECT SHOCK MOUNTS	56
E160	RESEARCH OR IDENTIFY PARTS USING ILLUSTRATED PARTS	
	BREAKDOWNS (IPB)	56
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	
	CONTROL INDICATOR UNITS (CIU)	56
H239	REMOVE OR REPLACE DOPPLER SENSOR RECEIVER-TRANSMITTER (RT)	56
<b>I247</b>	REMOVE OR REPLACE DOPPLER SENSOR RECEIVER-TRANSMITTER (RT) ADJUST DOPPLER SENSOR RECEIVER-TRANSMITTER (RT) COMPONENTS LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	56
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	56
H220	ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATIONAL COMPUTERS	56
J296	ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATIONAL COMPUTERS ISOLATE MALFUNCTIONS TO INERTIAL JUNCTION BOXES REMOVE OR REPLACE INERTIAL JUNCTION BOXES	56
J326	REMOVE OR REPLACE INERTIAL JUNCTION BOXES	56
E164	TAG OR LABEL EQUIPMENT	44
H233	REMOVE OR REPLACE DOPPLER NAVIGATIONAL COMPUTER CONTROL	
	BOXES	44
H219	ISOLATE MALFUNCTIONS TO DOPPLER NAVIGATION COMPUTER	
	CONTROL BOXES	44

## REPRESENTATIVE TASKS PERFORMED BY SPECIAL EQUIPMENT TECHNICIANS (GRP094)

TASKS		PERCENT MEMBERS PERFORMING (N=7)
W626	CALIBRATE MICROWAVE TEST FIXTURES	100
W706	ISOLATE MALFUNCTIONS TO PLATFORM CONTINUITY CHECKERS	100
G212	SECURE OR SAFETY LRU IN AIRCRAFT	100
F181	OPERATE POWER AGE	100
L424	REMOVE OR REPLACE IMU	100
L425 L399	REMOVE OR REPLACE IMU FILTER REGULATOR RELAY ASSEMBLIES ISOLATE MALFUNCTIONS TO DIGITAL MODULAR AVIONIC SYSTEM	100
11377	(DMAS) RELAY ASSEMBLIES	100
T 423	REMOVE OR REPLACE DTMR	100
	REMOVE OR REPLACE INU	100
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	100
031	ENCOUNTERED BY SUBORDINATES	100
1222	REMOVE OR REPLACE INERTIAL COMPUTERS	86
	ISOLATE MALFUNCTIONS TO INERTIAL NAVIGATION UNITS (INU)	
N461		00
1401	AMPLIFIERS	86
N462		80
N402	POWER SUPPLIES	86
0473		80
04/3	SUPPLIES	86
J294		86
	ISOLATE MALFUNCTIONS TO INEXTIAL CONFIDENCE ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	86
J327	REMOVE OR RELACE INERTIAL PLATFORMS	86
N459	PERFORM MARRIAGE ADJUSTMENTS OF INSTALLED LRU	86
K365		86
F172	ASSIST OTHER AVIONIC SPECIALISTS IN REPAIR OF OTHER AVIONIC	80
F1/2	SYSTEMS	86
K363		86
J309	ISOLATE MALFUNCTIONS TO PILOT INDICATOR CONTROL UNITS	00
0307	(PICU)	86
K386	REMOVE OR REPLACE INERTIAL COMPUTER SRU	86
	REMOVE OR REPLACE OUTPUT SIGNAL DISTRIBUTION UNITS	86
	REMOVE OR REPLACE CONTROL AND DISPLAY UNITS (CDU)	86
	TAG OR LABEL EQUIPMENT	86
	OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	00
0200	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	86
B43	IMPLEMENT PRECISION MEASURING EQUIPMENT (PME) MONITORING	
5-15	PROGRAMS	86
E144	MAINTAIN PRECISION MEASURING EQUIPMENT LABORATORY (PMEL)	-
~.~~	TEST EQUIPMENT SCHEDULES	86
K380	PERFORM GYRO BIAS CALIBRATIONS	86
	CALIBRATE SYSTEMS DEPENDMANCE TEST SETS (SDTS)	71

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	TABLE A22	
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	REPRESENTATIVE TASKS PERFORMED BY	
	MADAR SYSTEMS REPAIR PERSONNEL (GRP054)	
		PERCENT
TASKS	•	MEMBERS PERFORMING (N=166)
	REMOVE OR REPLACE MADAR SAR	96 06
	REMOVE OR REPLACE MADAR ORDU	96 96
	REMOVE OR REPLACE MADAR ODRU REMOVE OR REPLACE MADAR COMPUTERS	96 96
	ISOLATE MALFUNCTIONS TO MADAR SIGNAL ACQUISITION REMOTES	30
1333	(SAR)	95
	ISOLATE MALFUNCTIONS TO MADAR DATA RETRIEVAL UNITS (DRU)	95
T551	ISOLATE MALFUNCTIONS TO MADAR OSCILLOSCOPE AND DIGITAL	
mr/^	READOUT UNITS (ODRU)	95
T568	REMOVE OR REPLACE MADAR SCA UNITS, SUCH AS TEMPERATURE,	95
ፕፍፋሰ	PRESSURE, OR VIBRATION REMOVE OR REPLACE MADAR SCU	95 95
	ISOLATE MALFUNCTIONS TO MADAR PRINTOUT UNITS (POU)	95 95
	REMOVE OR REPLACE MADAR MMUX	95
	REMOVE OR REPLACE MADAR MDR	95
T566	REMOVE OR REPLACE MADAR RECORDING TAPES	94
	ISOLATE MALFUNCTIONS TO MADAR COMPUTERS	94
T570	REPROGRAM MADAR COMPUTERS	94
T550	ISOLATE MALFUNCTIONS TO MADAR MANUAL MULTIPLEXER ADAPTER	0.6
ጥፍሬፍ	REMOVE OR REPLACE MADAR POH	94 Q4
T549	ISOLATE MALFUNCTIONS TO MADAR MAINTENANCE DATA RECORDERS	77
-5 +7	(MDR)	94
T547	ISOLATE MALFUNCTIONS TO MADAR CONTROL AND SEQUENCE UNITS	
	(CSU)	93
T556	ISOLATE MALFUNCTIONS TO MADAR SYSTEM CENTRAL MULTIPLEXER	
meen	ADAPTER (CMA)	93
1228 TEE/	REMOVE OR REPLACE MADAK UMA ISOLATE MAIFINGTIONS TO MADAD SIGNAL-CONDITIONED AMDITETEDS	93
1334	(SCA) SENSING UNITS (TEMPERATURE, PRESSURE, OR VIRRATION)	92
T569	REMOVE OR REPLACE MADAR SCM	91
T557	OPERATE MADAR FOR SYSTEM INTERFACE CHECK-OUTS	90
T555	ISOLATE MALFUNCTIONS TO MADAR SIGNAL-CONDITIONING	
	MULTIPLEXERS (SCM)	89
J293	ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR	0.0
1017	CONTROL INDICATOR UNITS (CIU)	89 85
JJ1/ T212	UDEBATIONALLA CHECK INEDALUT GAGLEMO	20 83
E148	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA	<b></b>
2170	COLLECTION RECORD)	81
	ISOLATE MALFUNCTIONS TO MADAR MANUAL MULTIPLEXER ADAPTER (MMUX)  REMOVE OR REPLACE MADAR POU ISOLATE MALFUNCTIONS TO MADAR MAINTENANCE DATA RECORDERS (MDR) ISOLATE MALFUNCTIONS TO MADAR CONTROL AND SEQUENCE UNITS (CSU) ISOLATE MALFUNCTIONS TO MADAR SYSTEM CENTRAL MULTIPLEXER ADAPTER (CMA) REMOVE OR REPLACE MADAR CMA ISOLATE MALFUNCTIONS TO MADAR SIGNAL-CONDITIONER AMPLIFIERS (SCA) SENSING UNITS (TEMPERATURE, PRESSURE, OR VIBRATION) REMOVE OR REPLACE MADAR SCM OPERATE MADAR FOR SYSTEM INTERFACE CHECK-OUTS ISOLATE MALFUNCTIONS TO MADAR SIGNAL-CONDITIONING MULTIPLEXERS (SCM) ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) OR CONTROL INDICATOR UNITS (CIU) REMOVE OR REPLACE BATTERY UNITS (BU) OPERATIONALLY CHECK INERTIAL SYSTEMS MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	

#### REPRESENTATIVE TASKS PERFORMED BY GENERAL MADAR SYSTEMS REPAIR PERSONNEL (GRP220)

		PERCENT MEMBERS PERFORMING
<u>T/</u>	SKS	(N=147)
T.	67 REMOVE OR REPLACE MADAR SAR	100
	64 REMOVE OR REPLACE MADAR ODRU	100
	61 REMOVE OR REPLACE MADAR DRU	100
	60 REMOVE OR REPLACE MADAR SCU	100
	59 REMOVE OR REPLACE MADAR COMPUTERS	100
	63 REMOVE OR REPLACE MADAR MMUX	100
	53 ISOLATE MALFUNCTIONS TO MADAR SIGNAL ACQUISITION REMO (SAR)	
ጥ	48 ISOLATE MALFUNCTIONS TO MADAR DATA RETRIEVAL UNITS (D	
	51 ISOLATE MALFUNCTIONS TO MADAR OSCILLOSOCPE AND DIGITA READOUT UNITS (ODRU)	
TI	66 REMOVE OR REPLACE MADAR RECORDING TAPES	99
	70 REPROGRAM MADAR COMPUTERS	99
	68 REMOVE OR REPLACE MADAR SCA UNITS, SUCH AS TEMPERATUR	
1.	PRESSURE, OR VIBRATION	e, 99
ጥር	FRESSURE, UR VIDRALIUM	
15	52 ISOLATE MALFUNCTIONS TO MADAR PRINTOUT UNITS (POU)	99
	65 REMOVE OR REPLACE MADAR POU	99
	62 REMOVE OR REPLACE MADAR MOR	99
To	50 ISOLATE MALFUNCTIONS TO MADAR MANUAL MULTIPLEXER ADAP	
m.	(MMUX)	98
	58 REMOVE OR REPLACE MADAR CMA	98
TS	49 ISOLATE MALFUNCTIONS TO MADAR MAINTENANCE DATA RECORD	
-	(MDR)	98
T:	54 ISOLATE MALFUNCTIONS TO MADAR SIGNAL-CONDITIONER AMPL	
	(SCA) SENSING UNITS (TEMPERATURE, PRESSURE, OR VIBRA	
	46 ISOLATE MALFUNCTIONS TO MADAR COMPUTERS	97
T:	47 ISOLATE MALFUNCTIONS TO MADAR CONTROL AND SEQUENCE UN	
	(CSU)	97
T.	56 ISOLATE MALFUNCTIONS TO MADAR SYSTEM CENTRAL MULTIPLE	
	ADAPTER (CMA)	97
	69 REMOVE OR REPLACE MADAR SCM	97
T5	55 ISOLATE MALFUNCTIONS TO MADAR SIGNAL-CONDITIONING	
	MULTIPLEXERS (SCM)	95
T5	57 OPERATE MADAR FOR SYSTEM INTERFACE CHECK-OUTS	93
J	93 ISOLATE MALFUNCTIONS TO CONTROL DISPLAY UNITS (CDU) O	
	CONTROL INDICATOR UNITS (CIU)	93
	17 REMOVE OR REPLACE BATTERY UNITS (BU)	90
J3	13 OPERATIONALLY CHECK INERTIAL SYSTEMS	85
G2	OO OPERATE INERTIAL AND RADAR NAVIGATIONAL EQUIPMENT FOR	
	CHECK-OUT OF ASSOCIATED AVIONIC SYSTEMS	84
A2	3	

### REPRESENTATIVE TASKS PERFORMED BY ENROUTE MADAR SYSTEM REPAIR PERSONNEL (GRP111)

TASKS		PERCENT MEMBERS PERFORMING (N=6)
F185	REFUEL OR DEFUEL AIRCRAFT	100
F179	OPERATE NON-POWERED AEROSPACE GROUND EQUIPMENT (AGE)	100
F178	LAUNCH OR RECOVER AIRCRAFT	100
F187	SERVICE AIRCRAFT WITH HYDRAULIC FLUID, AIR, OR OIL	100
	TOW AIRCRAFT	100
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED PROBLEMS	100
F172		
	AVIONIC SYSTEMS	100
	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	100
	OPERATIONALLY CHECK INERTIAL SYSTEMS	100
<b>J306</b>	ISOLATE MALFUNCTIONS TO NAVIGATION UNITS (NU)	100
	OPERATE POWER AGE	83
F171	ASSIST IN REMOVING OR REPLACING AIRCRAFT MECHANICAL	
	SYSTEMS	83
	REPROGRAM MADAR COMPUTERS	83
D119	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS, SUCH AS	
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	83
A22		83
	JACK AIRCRAFT	83
T553	ISOLATE MALFUNCTIONS TO MADAR SIGNAL ACQUISITION REMOTES	
	(SAR)	83
	DRAFT CORRESPONDENCE	83
A23	SCHEDULE WORK ASSIGNMENTS	83
	REMOVE OR REPLACE MADAR SAR	83
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	83
	ISOLATE MALFUNCTIONS TO MADAR COMPUTERS	83
	INSTALL OR REMOVE 780 EQUIPMENT	67
B25	BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES OR	4-
	PROCEDURES	67
	REMOVE OR INSTALL ACCESS PANELS	67
	PREPARE DUTY ROSTERS	67
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	67
A3	COORDINATE WORK WITH OTHER SECTIONS	67
T557		67
D102		67
C78	INDORSE AIRMAN PERFORMANCE REPORTS	67
B49	INITIATE PUNITIVE ACTIONS OR RECOGNITION FOR COMMENDABLE	67

# REPRESENTATIVE TASKS PERFORMED BY FLIGHTLINE MADAR SYSTEMS REPAIR PERSONNEL (GRP262)

TASKS		PERCENT MEMBERS PERFORMING
U589 BEN	CH CHECK MADAR DRU	100
U592 BEN	CH CHECK MADAR ODRU	100
U588 BENG	CH CHECK MADAR SCU	100
U590 BEN	CH CHECK MADAR MDR	100
U608 PRO	GRAM MADAR COMPUTERS	100
U587 BENG	CH CHECK MADAR COMPUTERS	100
U593 BEN	CH CHECK MADAR POU	100
	CH CHECK MADAR MMUX	100
	N MADAR POU	100
U582 ALI	N MADAR MMUX	100
	IST MADAR ODRU	100
	EN MADAR SCM	100
_	IST MADAR DRU	100
	N MADAR CMA	100
	EN MADAR CSU	100
	IST MADAR SCU	100
	IST MADAR MDR	100
	ATE MALFUNCTIONS TO MADAR CSU SRU	88
	ATE MALFUNCTIONS TO MADAR ODRU SRU	88
	ATE MALFUNCTIONS TO MADAR SAR SRU	88
	ATE MALFUNCTIONS TO MADAR MOR SUR	88
	ATE MLAFUNCTIONS OT MADAR POU SRU	88
	ATE MALFUNCTIONS TO SCM SRU	75
-	ATE MALFUNCTIONS TO SCA SRU	63
	OR LABEL EQUIPMENT	63
	TE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	63
E148 MAKI	ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION CORD)	63
	RVISE APPRENTICE AVIONIC INERTIAL AND RADAR NAVIGATION	03
		50
	STEMS SPECIALISTS (AFSC 32834)	20
	ITAIN TRAINING RECORDS, CHARTS, OR GRAPHS, SUCH AS AF	50
	MS 623 (ON-THE-JOB TRAINING RECORD)	50 50
	ENTRIES ON SUPPLY FORMS, OTHER THAN AF FORM 601	50
	ISEL SUBORDINATE ON PERSONAL OR MILITARY-RELATED PROBLEMS	
	OUCT OJT	38
	CT SHOP MAINTENANCE ACTIVITIES	25
	UATE COMPLIANCE WITH WORK STANDARDS	25
	YZE WORK LOAD REQUIREMENTS	25
	RVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	
CDI	'CTATTETE (AFEC 2285A)	25

#### REPRESENTATIVE TASKS PERFORMED BY ADMINISTRATIVE AND SUPERVISORY PERSONNEL (GRP018)

TASKS		PERCENT MEMBERS PERFORMING (N=105)
Inono		(10-100)
<b>A3</b>	COORDINATE WORK WITH OTHER SECTIONS	85
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	80
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	76
B27	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	75
B50	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	74
B37	DRAFT CORRESPONDENCE	73
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	70
D119	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS, SUCH AS	
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	70
B25	BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES OR	
	PROCEDURES	70
	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	68
	INITIATE PUNITIVE ACTIONS OR RECOGNITION FOR COMMENDABLE	
	PERFORMANCES	68
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR	
	APPEARANCE	65
A22	SCHEDULE LEAVES, PASSES, OR TEMPORARY DUTY (TDY) TRIPS	65
COO	EVALUATE CONFLIANCE WITH WORK STANDARDS	04
A13	ESTABLISH WORK PRIORITIES	64
C81	INSPECT CONSOLIDATED TOOL KITS (CTK)	62
	CONDUCT SAFETY INSPECTIONS	62
	SCHEDULE WORK ASSIGNMENTS	59
B48	INITIATE CORRECTIVE ACTIONS BASED ON MAINTENANCE	
	INSPECTIONS OR REPORTS	59
A17	PREPARE BRIEFINGS	58
C87	PERFORM SAFETY INSPECTIONS	56
	EVALUATE PROGRESS OF TRAINEES	55
B55		
	SPECIALISTS (AFSC 32854)	54
D106		
C72	EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT. OR	<del></del>
-	SUPPLIES	52
D125	SELECT PERSONNEL TO ATTEND TRAINING PROGRAMS	52
B52	PRESENT BRIEFINGS	51
A7	DEVELOP RECORDS OR MAINTENANCE AND DISPOSITION FILES	51
B56	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	• •
	TECHNICIANS (AFSC 32874)	50
	COUNSEL TRAINEES ON TRAINING PROGRESS EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES SELECT PERSONNEL TO ATTEND TRAINING PROGRAMS PRESENT BRIEFINGS DEVELOP RECORDS OR MAINTENANCE AND DISPOSITION FILES SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS TECHNICIANS (AFSC 32874)	-
A26		

# REPRESENTATIVE TASKS PERFORMED BY SECTION CHIEFS AND SUPERVISORS (GRP205)

TASKS		PERCENT MEMBERS PERFORMING (N=40)
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	100
B50	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	100
A18	PREPARE DUTY ROSTERS	100
A3	COORDINATE WORK WITH OTHER SECTIONS	100
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	100
A23	SCHEDULE WORK ASSIGNMENTS	97
A13	ESTABLISH WORK PRIORITIES	97
A25		
	PROCEDURES	97
D99		97
B49	· · · · · · · · · · · · · · · · · · ·	
	PERFORMANCES	97
A22	SCHEDULE LEAVES, PASSES, OR TEMPORARY DUTY (TDY). TRIPS	97
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	95
D119		
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	95
C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	95
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR	
	APPEARANCE	92
B56	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	
	TECHNICIANS (AFSC 32874)	92
B48	INITIATE CORRECTIVE ACTIONS BASED ON MAINTENANCE	
_	INSPECTIONS OR REPORTS	92
C77	EVALUATE WORK SCHEDULES	90
B37	DRAFT CORRESPONDENCE	90
B27	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	90
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	
	SPECIALISTS (AFSC 32854)	88
C66		88
C78		88
D125		88
C71		88
E143	· · · · · · · · · · · · · · · · · · ·	
	TRANSACTION ERROR LISTINGS	88
E161		88
D120	DIAN ON-THE-IOD TRAINING (OIT)	82

## REPRESENTATIVE TASKS PERFORMED BY COURSE SUPERVISORS (GRP152)

TASKS		PERCENT MEMBERS PERFORMING (N=8)
D119	MAINTAIN TRAINING RECORDS, CHARTS, GRAPHS, SUCH AS	
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	100
D125	SELECT PERSONNEL TO ATTEND TRAINING PROGRAMS	100
B28		100
B47		100
B49		
21,7	PERFORMANCES	100
A22	SCHEDULE LEAVES, PASSES, OR TEMPORARY DUTY (TDY) TRIPS	100
	EVALUATE TRAINING PERFORMANCE	88
	EVALUATE INSTRUCTOR PERFORMANCE	88
	COUNSEL TRAINEES ON TRAINING PROGRESS	88
	EVALUATE PROGRESS OF TRAINEES	88
	TYPE CORRESPONDENCE, FORMS, OR REPORTS	88
	EVALUATE TRAINING METHODS, TECHNIQUES, OR PROGRAMS	88
D124	SCHEDULE TRAINING PROGRAMS OTHER THAN OJT	88
	DIRECT TRAINING COURSES	88
B37	DRAFT CORRESPONDENCE	88
	PRESENT BREIFINGS	88
	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	88
C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	88
A17	PREPARE BRIEFINGS	88
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	88
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR APPEARANCE	75
D109	DEVELOP COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR	
	SPECIALTY TRAINING STANDARDS (STS)	75
D98	ADMINISTER OR SCORE TESTS	75
B27	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	75
D111	ESTABLISH TRAINING REQUIREMENTS	75
A18	PREPARE DUTY ROSTERS	75
A3	COORDINATE WORK WITH OTHER SECTIONS	75
D104	CONDUCT RESIDENT COURSE TRAINING	63
	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	63
B57		
	TECHNICIANS (ARTS)	50
D129	WRITE TEST QUESTIONS	50

### REPRESENTATIVE TASKS PERFORMED BY FLIGHTLINE MADAR SUPERVISORS (GRP118)

TASKS		PERCENT MEMBERS PERFORMING (N=27)
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	
	SPECIALISTS (AFSC 32854)	100
B29	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	100
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	100
B54	SUPERVISE APPRENTICE AVIONIC INERTIAL AND RADAR NAVIGATION	
	SYSTEMS SPECIALISTS (AFSC 32834)	100
D108	· · · · · · · · · · · · · · · · · · ·	100
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	100
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	100
F180	OPERATE OR SERVICE MAINTENANCE DISPATCH VEHICLES	86
C89		86
D119		
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	86
D116	INSTRUCT PERSONNEL ON EQUIPMENT MAINTENANCE OR REPAIR	
	TECHNIQUES	86
A3	COORDINATE WORK WITH OTHER SECTIONS	86
E149	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	86
B53	SUPERVISE AIR RESERVE TECHNICIANS (ARTS)	71
B57	SUPERVISE CIVILIAN PERSONNEL OTHER THAN AIR RESERVE	
	TECHNICIANS (ARTS)	71
A23		71
	COUNSEL TRAINEES ON TRAINING PROGRESS	71
T571		71
C87	PERFORM SAFETY INSPECTIONS	71
G203	PERFORM PRODUCTION INSPECTIONS	71
C62	CONDUCT SAFETY INSPECTIONS	71
D107		71
E136	LOCATE PARTS OR STOCK NUMBERS IN TECHNICAL PUBLICATIONS	71
C81	INSPECT CONSOLIDATED TOOL KITS (CTK)	71
B25	BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES OR	
_	PROCEDURES	71
B56	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	
	TECHNICIANS (AFSC 32874)	57
	EVALUATE PROGRESS OF TRAINEES	57
A13	ESTABLISH WORK PRIORITIES	57
A18	PREPARE DUTY ROSTERS	57

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# REPRESENTATIVE TASKS PERFORMED BY OJT MANAGERS (GRP085)

TASKS		PERCENT MEMBERS PERFORMING (N=5)
B47	INDOCTRINATE NEWLY ASSIGNED PERSONNEL	100
B50	INDOCTRINATE NEWLY ASSIGNED PERSONNEL INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	100
D125		100
D125 A1	ASSIGN PERSONNEL TO DUTY POSITIONS	100
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	80
C89	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	80
	REVIEW TRAINING REPORTS	80
B56	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS TECHNICIANS (AFSC 32874)	80
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	80
D99	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS	80
A3	COORDINATE WORK WITH OTHER SECTIONS	80
C78	INDORSE AIRMAN PERFORMANCE REPORTS	80
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	80
B37		60
	EVALUATE PROGRESS OF TRAINEES	60
B49	INITIATE PUNITIVE ACTIONS OR RECOGNITION FOR COMMENDABLE	
	PERFORMANCES	60
D120	PLAN ON-THE-JOB TRAINING (OJT)	60
B58		60
B27		60
A22		60
B54	SUPERVISE APPRENTICE AVIONIC INERTIAL AND RADAR NAVIGATION	
<b>55</b> +	SYSTEMS SPECIALISTS (AFSC 32834)	60
D102	CONDUCT OJT	60
B55	SUPERVISE AVIONIC INERTIAL AND RADAR NAVIGATION SYSTEMS	60
D100	SPECIALISTS (AFSC 32854)	
	DEMONSTRATE PROCEDURES FOR LOCATING TECHNICAL INFORMATION	60
D106		60
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR APPEARANCE	60
A18	PREPARE DUTY ROSTERS	60
	PERFORM SAFETY INSPECTIONS	40
	ESTABLISH TRAINING REQUIREMENTS	40
A7		40
C77		40
	COMMING TOD BEOCH CIENCE WENTHING	40

### REPRESENTATIVE TASKS PERFORMED BY QUALITY CONTROL MANAGERS (GRP047)

TASKS		PERCENT MEMBERS PERFORMING (N=20)
B37	DRAFT CORRESPONDENCE EVALUATE INSPECTION REPORTS OR PROCEDURES WRITE INSPECTION REPORTS CONDUCT OR PARTICIPATE IN STAFF MEETINGS EVALUATE COMPLIANCE WITH WORK STANDARDS COORDINATE WORK WITH OTHER SECTIONS CONDUCT SAFETY INSPECTIONS INSPECT MAINTENANCE ACTIVITIES	85
C68	EVALUATE INSPECTION REPORTS OR PROCEDURES	85
C96	WRITE INSPECTION REPORTS	80
B27	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	80
C66	EVALUATE COMPLIANCE WITH WORK STANDARDS	80
A3	COORDINATE WORK WITH OTHER SECTIONS	75
C62	CONDUCT SAFETY INSPECTIONS	75
C83	INSPECT MAINTENANCE ACTIVITIES	70
A17	PREPARE BRIEFINGS	70
C97	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, OTHER	
	THAN TRAINING REPORTS	65
C87	PERFORM SAFETY INSPECTIONS	65
C92	PERFORM SAFETY INSPECTIONS REVIEW TECHNICAL ORDERS (TOs)	65
C74	EVALUATE SAFETY OR SECURITY PROGRAMS	65
B25	BRIEF PERSONNEL ON MAINTENANCE MANAGEMENT DIRECTIVES OR	
	PROCEDURES	65
	PERFORM QUALITY ASSURANCE CHECKS	60
B33		60
C81		60
A21	SCHEDULE INSPECTIONS	60
	PRESENT BRIEFINGS	60
B50	PRESENT BRIEFINGS INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	_
	SUBORDINATES	60
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR	
	APPEARANCE	60
C85	INVESTIGATE ACCIDENTS OR INCIDENTS	60
C72		
	SUPPLIES	55
C86	MAKE ENTRIES ON INSPECTION SYSTEM FORMS	55
E159		55
C75		50
B48	INITIATE CORRECTIVE ACTIONS BASED ON MAINTENANCE	
070	INSPECTIONS OR REPORTS	50
C73	= 7	50
067	OF PROPERTY ITEMS	45
	EVALUATE ENGINEERING CHANGE PROPOSALS	45 45
C95 C63		45 45
-	EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	45 40

# REPRESENTATIVE TASKS PERFORMED BY TRAINING PERSONNEL (GRP008)

TASKS		PERCENT MEMBERS PERFORMING (N=38)
D98	ADMINISTER OR SCORE TESTS	87
	DEMONSTRATE OPERATION OF EQUIPMENT	87
	EVALUATE PROGRESS OF TRAINEES	84
	COUNSEL TRAINEES ON TRAINING PROGRESS	82
D108	DEMONSTRATE PROCEDURES FOR LOCATING TECHNICAL INFORMATION	76
	WRITE TEST QUESTIONS	76
D104	CONDUCT RESIDENT COURSE TRAINING	74
D116	INSTRUCT PERSONNEL ON EQUIPMENT MAINTENANCE OR REPAIR	
	TECHNIQUES	71
B28	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	61
D109	DEVELOP COURSE CURRICULA, PLANS OF INSTRUCTION, OR	
	SPECIALTY TRAINING STANDARDS (STS)	55
D103	CONDUCT REMEDIAL TRAINING	45
D121	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	45
D115	EVALUATE TRAINING PERFORMANCE	34
C91	PROVIDE TECHNICAL ASSISTANCE FOR JOB-RELATED PROBLEMS	
	ENCOUNTERED BY SUBORDINATES	32
	EVALUATE TRAINING METHODS, TECHNIQUES, OR PROGRAMS	32
B49	INITIATE PUNITIVE ACTIONS OR RECOGNITION FOR COMMENDABLE	
	PERFORMANCES	29
D119	· · · · · · · · · · · · · · · · · · ·	
	AF FORMS 623 (ON-THE-JOB TRAINING RECORD)	24
	TYPE CORRESPONDENCE, FORMS, OR REPORTS	24
	MAINTAIN TRAINING EQUIPMENT	21
D117		21
A10		21
B44	IMPLEMENT SAFETY PROGRAMS OR PROCEDURES	18
B54		
	SYSTEMS SPECIALISTS (AFSC 32834)	16
D110		16
B52		16
C82	INSPECT FACILITIES OR WORK AREAS FOR CONDITION OR	
	APPEARANCE	16
<b>A</b> 3		16
	REVIEW TRAINING REPORTS	13
D125		5
D124		5
D120	LIDITE AD DEUTCE CADEED REUELADMENT CAIDCEC	2

